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Attenuators

Parts	Product Lifecycle	Description	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Attenuation Range ^{typ}	Control Step Size	IIP3 ^{typ}	Insertion Loss ^{typ}	Specified at Freq	Interface
ADRF5714	RECOMMENDED FOR NEW DESIGNS	Silicon Digital Attenuator, 1-Bit, 100 MHz to 30 GHz	Digitally Controlled Attenuator	100M	30G	16	16	-	0.9	18G	-
ADRF5716	RECOMMENDED FOR NEW DESIGNS	Silicon Digital Attenuator, 2-Bit, 100 MHz to 30 GHz	Digitally Controlled Attenuator	100M	30G	48	16	50	2.1	18G	-
ADRF5717	RECOMMENDED FOR NEW DESIGNS	Silicon Digital Attenuator, 2-Bit, 1 MHz to 30 GHz	Digitally Controlled Attenuator	1M	30G	48	16	-	2	18G	-
ADRF5700	RECOMMENDED FOR NEW DESIGNS	46 dB, 2 dB LSB, 5-Bit, Silicon Digital Attenuator, 100 MHz to 22 GHz	Digitally Controlled Attenuator	100M	22G	46	2	47	2	20G	-
ADRF5474	RECOMMENDED FOR NEW DESIGNS	Die on Carrier, Silicon Digital Attenuator, 2 dB LSB, 4-Bit, 10 MHz to 60 GHz	Digitally Controlled Attenuator	10M	60G	22	2	45	1.8	60G	CMOS/LVTTL compatible, Parallel
ADRF5473	RECOMMENDED FOR NEW DESIGNS	Die on Carrier, Silicon Digital Attenuator, 0.5 dB LSB, 6-Bit, 100 MHz to 40 GHz	Digitally Controlled Attenuator	100M	40G	31.5	0.5	50	3.2	40G	CMOS/LVTTL compatible, Parallel, Serial
ADH346S	RECOMMENDED FOR NEW DESIGNS	Space MMIC Voltage-Variable Attenuator DC-20GHz	Voltage Variable Attenuator	0	20G	32	-	25	-	-	-
ADRF5740	RECOMMENDED FOR NEW DESIGNS	2 dB LSB, 4-Bit, Silicon Digital Attenuator, 10 MHz to 60 GHz	Digitally Controlled Attenuator	10M	60G	22	2	44	2.4	40G	Parallel, TTL/CMOS Compatible
ADH939S	RECOMMENDED FOR NEW DESIGNS	Aerospace 0.1 GHz to 40 GHz, GaAs, MMIC, 5-Bit 1.0 dB LSB, Digital Attenuator	Digitally Controlled Attenuator	100M	40G	31	1	-	6.4	26G	Parallel, TTL/CMOS Compatible

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation Range typ	Control Step Size	IIP3 typ	Insertion Loss typ	Specified at Freq	Interface
ADH941S	RECOMMENDED FOR NEW DESIGNS	Aerospace 0.1 GHz to 30 GHz, GaAs, MMIC, 5-Bit 0.5 dB LSB, Digital Attenuator	Digitally Controlled Attenuator	100M	30G	15	0.5	-	4.4	26G	Parallel, TTL/CMOS Compatible
ADRF5721	RECOMMENDED FOR NEW DESIGNS	2 dB LSB, 4-Bit, Silicon Digital Attenuator, 9 kHz to 40 GHz	Digitally Controlled Attenuator	9k	40G	30	2	50	3.4	40G	Parallel, Serial, TTL/CMOS Compatible
ADRF5731	RECOMMENDED FOR NEW DESIGNS	2 dB LSB, 4-Bit, Silicon Digital Attenuator, 100 MHz to 40 GHz	Digitally Controlled Attenuator	100M	40G	30	2	50	3.5	40G	Parallel, Serial, TTL/CMOS Compatible
ADRF5720	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB, 6-Bit, Silicon Digital Attenuator, 9 kHz to 40 GHz	Digitally Controlled Attenuator	9k	40G	31	0.5	50	4.5	40G	Parallel, Serial, TTL/CMOS Compatible
ADRF5730	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB, 6-Bit, Silicon Digital Attenuator, 100 MHz to 40 GHz	Digitally Controlled Attenuator	100M	40G	31	0.5	50	4.8	40G	Parallel, Serial, TTL/CMOS Compatible
HMC8073	RECOMMENDED FOR NEW DESIGNS	0.6 GHz to 3.0 GHz, 0.5 dB LSB, 6-Bit, Silicon Digital Step Attenuator	Digitally Controlled Attenuator	600M	3G	31.5	0.5	52	2.2	2.3G	Serial, TTL/CMOS Compatible
HMC812A	RECOMMENDED FOR NEW DESIGNS	GaAs MMIC Voltage-Variable Attenuator, 5 - 30 GHz	Voltage Variable Attenuator	5G	30G	30	-	28	2.5	26G	Negative Voltage
HMC712A	RECOMMENDED FOR NEW DESIGNS	GaAs MMIC Voltage-Variable Attenuator, 5 - 26.5 GHz	Voltage Variable Attenuator	5G	26.5G	30	-	32	4.2	26G	Negative Voltage
HMC941A-Die	PRODUCTION	0.5 dB LSB GaAs MMIC 5-Bit Digital Attenuator, 0.1 - 30 GHz	Digitally Controlled Attenuator	0.1G	30G	15	0.5	43	4.2	26G	Parallel, TTL/CMOS Compatible

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation Range typ	Control Step Size	IIP3 typ	Insertion Loss typ	Specified at Freq	Interface
HMC939A-Die	PRODUCTION	1.0 dB LSB GaAs MMIC 5-Bit Digital Attenuator, 0.1 - 40 GHz	Digitally Controlled Attenuator	0.1G	40G	31	1	40	7	40G	Parallel, TTL/CMOS Compatible
HMC939ALP4E	PRODUCTION	0.1 GHz to 33 GHz, 1 dB LSB, 5-Bit, GaAs Digital Attenuator	Digitally Controlled Attenuator	0.1G	33G	31	1	40	5.5	26G	Parallel, TTL/CMOS Compatible
HMC941ALP4E	PRODUCTION	0.5 dB LSB GaAs MMIC 5-Bit Digital Attenuator, 0.1 - 33 GHz	Digitally Controlled Attenuator	100M	33G	15	0.5	45	4	26G	Parallel, TTL/CMOS Compatible
HMC1119	RECOMMENDED FOR NEW DESIGNS	0.25 dB LSB, 7-Bit, Silicon Digital Attenuator, 0.1 GHz to 6.0 GHz	Digitally Controlled Attenuator	100M	6G	32.2	0.25	54	1.5	4G	Parallel, Serial, TTL/CMOS Compatible
HMC629A	RECOMMENDED FOR NEW DESIGNS	3 dB LSB GaAs MMIC 4-Bit Digital Attenuator, DC - 10 GHz	Digitally Controlled Attenuator	0	10G	42	3	55	2.5	4G	Parallel, Serial, TTL/CMOS Compatible
HMC973A	RECOMMENDED FOR NEW DESIGNS	GaAs MMIC Voltage Variable Attenuator, 0.5 - 5.0 GHz	Voltage Variable Attenuator	500M	6G	26	-	35	3.5	4G	Positive Voltage
HMC539A	RECOMMENDED FOR NEW DESIGNS	0.25 dB LSB GaAs MMIC 5-BIT Digital Positive Control Attenuator, DC - 4 GHz	Digitally Controlled Attenuator	0	4G	7.75	0.25	50	1	2G	Parallel, TTL/CMOS Compatible
HMC424AG16	PRODUCTION	0.5dB LSB GaAs MMIC 6-Bit Digital Attenuator, DC - 3 GHz	Digitally Controlled Attenuator	0	3G	31.5	0.5	46	3	3G	Negative Voltage, Parallel
HMC424ALH5	PRODUCTION	0.5dB LSB GaAs MMIC 6-Bit Digital Attenuator, DC - 13 GHz	Digitally Controlled Attenuator	0	13G	31.5	0.5	40	3.3	8G	Negative Voltage, Parallel

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation typ Range	Control Step Size	IIP3 typ	Insertion typ Loss	Specified at Freq	Interface
HMC1122	RECOMMENDED FOR NEW DESIGNS	0.1 GHz to 6.0 GHz, 0.5 dB LSB, 6-Bit, Silicon Digital Attenuator	Digitally Controlled Attenuator	100M	6G	31.7	0.5	55	1.2	4G	Parallel, Serial, TTL/CMOS Compatible
HMC802A	RECOMMENDED FOR NEW DESIGNS	20 dB GaAs MMIC 1-Bit Digital Positive Control Attenuator SMT, DC - 10 GHz	Digitally Controlled Attenuator	0	10G	18.5	20	55	1.5	8G	Parallel, TTL/CMOS Compatible
HMC305S	RECOMMENDED FOR NEW DESIGNS	Glitch Free 0.5 dB 5-Bit Serial Control Silicon Digital Attenuator, 0.4 - 7.0 GHz	Digitally Controlled Attenuator	400M	7G	15.7	0.5	52	1.4	3.8G	Serial, TTL/CMOS Compatible
ADH424S	RECOMMENDED FOR NEW DESIGNS	MMIC Digital Attenuator	Digitally Controlled Attenuator	0	13G	31.5	0.5	-	-	-	-
HMC273A	RECOMMENDED FOR NEW DESIGNS	1 dB LSB GaAs MMIC 5-Bit Digital Attenuator, 0.7 to 3.8 GHz	Digitally Controlled Attenuator	700M	3.7G	31	1	48	2.8	1.4G	Parallel, Positive Voltage
HMC291S	RECOMMENDED FOR NEW DESIGNS	4 dB LSB Silicon 2-Bit Positive Control Digital Attenuator, 0.7 - 4.0 GHz	Digitally Controlled Attenuator	700M	4G	12	4	54	0.9	2.3G	Parallel, Positive Voltage
HMC346ALC3B	PRODUCTION	GaAs MMIC Voltage-Variable Attenuator, DC - 18 GHz	Voltage Variable Attenuator	0	18G	30	-	30	2.8	12G	Negative Voltage
HMC346ALP3E	PRODUCTION	GaAs MMIC Voltage-Variable Attenuator, DC - 14 GHz	Voltage Variable Attenuator	0	14G	30	-	30	2.6	10G	Negative Voltage
HMC346AMS8GE	PRODUCTION	GaAs MMIC SMT Voltage-Variable Attenuator, DC - 8 GHz	Voltage Variable Attenuator	0	8G	28	-	30	2.1	6G	Negative Voltage
HMC470A	RECOMMENDED FOR NEW DESIGNS	0.1 GHz to 3 GHz, 1 dB LSB, 5-Bit, GaAs Digital Attenuator	Digitally Controlled Attenuator	100M	3G	31	1	48	1.7	2G	Parallel, TTL/CMOS Compatible

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation typ Range	Control Step Size	IIP3 typ	Insertion typ Loss	Specified at Freq	Interface
HMC472A	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB GaAs MMIC 6-Bit Digital Positive Control Attenuator, DC - 3.8 GHz	Digitally Controlled Attenuator	0	3.8G	31.5	0.5	54	1.7	2G	Parallel, TTL/CMOS Compatible
HMC650	RECOMMENDED FOR NEW DESIGNS	Fixed, 12 mil Thru Line Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC651	RECOMMENDED FOR NEW DESIGNS	Fixed, 20 mil Thru Line Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC655-Die	PRODUCTION	Fixed, 6 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC658-Die	PRODUCTION	Fixed, 20 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC658LP2	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC792A	RECOMMENDED FOR NEW DESIGNS	0.25 dB LSB GaAs MMIC 6-Bit Digital Attenuator SMT, DC - 6 GHz	Digitally Controlled Attenuator	0	6G	15.7	0.25	53	1.8	4G	Parallel, Serial, TTL/CMOS Compatible
ADRF5715	RECOMMENDED FOR NEW DESIGNS	Silicon Digital Attenuator, 1-Bit, 1 MHz to 30 GHz	Digitally Controlled Attenuator	1M	30G	16	16	-	0.8	18G	-
HMC1018A	RECOMMENDED FOR NEW DESIGNS	1.0 dB LSB GaAs MMIC 5-BIT DIGITAL ATTENUATOR, 0.1 - 30 GHz	Digitally Controlled Attenuator	100M	30G	31	1	42	5.5	26G	Serial, TTL/CMOS Compatible

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation typ Range	Control Step Size	IIP3 typ	Insertion typ Loss	Specified at Freq	Interface
HMC1019A	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB GaAs MMIC 5-BIT DIGITAL ATTENUATOR, 0.1 - 30 GHz	Digitally Controlled Attenuator	100M	30G	15	0.5	45	4	26G	Serial, TTL/CMOS Compatible
HMC1095	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB GaAs MMIC 6-bit 75 Ohms Digital Attenuator, DC - 3 GHz	Digitally Controlled Attenuator	0	3G	31.5	0.5	57	1.3	1G	Parallel, Serial, TTL/CMOS Compatible
HMC306A	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB GaAs MMIC 5-Bit Digital Attenuator, 0.7 - 3.8 GHz	Digitally Controlled Attenuator	700M	3.8G	15.5	0.5	52	1.5	2.3G	Parallel, Positive Voltage
HMC424A-Die	PRODUCTION	0.5dB LSB GaAs MMIC 6-Bit Digital Attenuator, DC - 13 GHz	Digitally Controlled Attenuator	0	13G	31.5	0.5	42	3.4	8G	Negative Voltage, Parallel
HMC424ALP3E	PRODUCTION	0.1 GHz to 13.0 GHz, 0.5 dB LSB, 6-Bit, GaAs Digital Attenuator	Digitally Controlled Attenuator	100M	13G	-	0.5	45	3.3	8G	Negative Voltage, Parallel
HMC425A	RECOMMENDED FOR NEW DESIGNS	0.5 dB LSB GaAs MMIC 6-BIT DIGITAL POSITIVE CONTROL ATTENUATOR, 2.2 - 8.0 GHz	Digitally Controlled Attenuator	2.2G	8G	31.5	0.5	45	3.5	6G	Parallel, Positive Voltage
HMC468A	RECOMMENDED FOR NEW DESIGNS	1 dB LSB GaAs MMIC 3-Bit Digital Positive Control Attenuator, DC-6 GHz	Digitally Controlled Attenuator	0	6G	7	1	55	0.7	4G	Parallel, TTL/CMOS Compatible
HMC540S	RECOMMENDED FOR NEW DESIGNS	1 dB LSB Silicon MMIC 4-Bit Digital Positive Control Attenuator, 0.1 - 8 GHz	Digitally Controlled Attenuator	100M	8G	15	1	54	0.8	4G	Parallel, TTL/CMOS Compatible

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Attenuation typ Range	Control Step Size	IIP3 typ	Insertion typ Loss	Specified at Freq	Interface
HMC542B	RECOMMENDED FOR NEW DESIGNS	0.5dB LSB GaAs MMIC 6-Bit Digital Serial Control Attenuator, DC - 4 GHz	Digitally Controlled Attenuator	0	4G	31.5	0.5	50	1.7	2G	Serial, TTL/CMOS Compatible
HMC624A	RECOMMENDED FOR NEW DESIGNS	0.1 GHz to 6.0 GHz, 0.5 dB LSB, 6-Bit, GaAs Digital Attenuator	Digitally Controlled Attenuator	100M	6G	31.5	0.5	55	2.2	4G	Parallel, Serial, TTL/CMOS Compatible
HMC652-Die	PRODUCTION	Fixed, 2 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC652LP2E	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC653-Die	PRODUCTION	Fixed, 3 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC653LP2E	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC654-Die	PRODUCTION	Fixed, 4 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC654LP2E	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC655LP2E	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC656-Die	PRODUCTION	Fixed, 10 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-

	Product Lifecycle	Description	RF Primary Function	Freq Response RFmin	Freq Response RFmax	Attenuation Range typ	Control Step Size	IIP3 typ	Insertion Loss typ	Specified at Freq	Interface
HMC656LP2	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC657-Die	PRODUCTION	Fixed, 15 dB Passive Attenuator Chip, DC - 50 GHz	Fixed Passive Attenuator	0	50G	-	-	-	-	50G	-
HMC657LP2	PRODUCTION	Fixed Passive SMT Attenuator, DC - 25 GHz	Fixed Passive Attenuator	0	25G	-	-	-	-	25G	-
HMC759	LAST TIME BUY	0.25dB LSB 7-Bit Digital Attenuator SMT, 10 - 300 MHz	Digitally Controlled Attenuator	10M	300M	31.7	0.25	40	3.3	0.3G	Serial, TTL/CMOS Compatible
HMC985A-Die	PRODUCTION	GaAs MMIC Voltage-Variable Attenuator, 20 - 50 GHz	Voltage Variable Attenuator	20G	50G	42	-	30	3.2	40G	Negative Voltage
HMC985ALP4KE	PRODUCTION	GaAs MMIC Voltage - Variable Attenuator, 10 - 40 GHz	Voltage Variable Attenuator	10G	40G	30	-	32	2.9	40G	Negative Voltage

Beamformers, Phase Shifters, and Vector Modulators

Parts	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Phase Range ^{typ}	IIP3 ^{typ}
ADMV4680	10.7 GHz to 14.5 GHz, 4-Channel Half-Duplex Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	10.7G	14.5G	-	-
ADAR5000	17 GHz to 32 GHz, 4-Way RF Splitter Combiner	RECOMMENDED FOR NEW DESIGNS	Beamformer	17G	32G	-	-
ADAR4002	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit	RECOMMENDED FOR NEW DESIGNS	Beamformer	500M	19G	-	-
ADAR3000S	17 GHz to 22 GHz, 4-Beam and 4-Element, Ka-Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	17.7G	21.2G	-	-
ADAR3001S	27.5 GHz to 31 GHz, 4-Beam and 4-Element, Ka-Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	27.5G	31G	-	-
ADMV4928	37.0 GHz to 43.5 GHz Transmit/Receive Dual Polarization Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	37G	43.5G	360	-
ADMV4828	24.0 GHz to 29.5 GHz Transmit/Receive Dual Polarization Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	24G	29.5G	360	-
ADAR1000	8 GHz to 16 GHz, 4-Channel, X Band and Ku Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	8G	16G	360	0
HMC936A	GaAS MMIC 6 Bit Digital Phase Shifters, 1.2 - 1.4 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	1.2G	1.4G	360	45
HMC543A	22.5° MMIC 4-Bit Digital Phase Shifter, 8 - 12 GHz	LAST TIME BUY	Digital Control Phase Shifters	8G	12G	360	40
HMC644ALC5	GaAs MMIC 5-Bit Digital Phase Shifter, 15 - 18.5 GHz	LAST TIME BUY	Digital Control Phase Shifters	15G	18.5G	360	40
HMC648A	GaAs MMIC 6-Bit Digital Phase Shifter, 2.9 to 3.9 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	2.9G	3.9G	360	45
HMC1133	GaAs MMIC 6-BIT Digital Phase Shifter, 4.8 - 6.2 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	4.8G	6G	360	46

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Phase Range ^{typ}	IIP3 ^{typ}
AD8340	700 MHz to 1000 MHz RF Vector Modulator	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	700M	1G	360	24
ADL5390	RF Vector Multiplier	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	200M	2.4G	360	18.7
AD8341	RF Vector Modulator 1.5 GHz TO 2.4 GHz	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	1.5G	2.4G	360	17.5
MAX2046	High-Gain Vector Multipliers	PRODUCTION	Vector Multiplier	1.74G	2.06G	-	15
ADMV4801	24 GHz to 29.5 GHz Transmitter/Receiver, Single Polarization Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	24G	29.5G	360	-
ADMV4821	24 GHz to 29.5 GHz Transmitter/Receiver, Dual Polarization Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer, Vector Modulators	24G	29.5G	360	-
ADAR3000	17 GHz to 22 GHz, 4-Beam and 4-Element, Ka-Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	17G	22G	-	-
ADAR3001	27.5 GHz to 31 GHz, 4-Beam and 4-Element, Ka-Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	27.5G	31G	-	-
ADAR3002	17.7 to 21.2 GHz, 2-Beam & 4-Element, Dual Polarized, Receive Ka Band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	17.7G	21.2G	-	-
ADAR3003	27 to 31 GHz, 1-Beam & 4-Element, Dual Polarized, Transmit Ka Band Beamformer	PRE-RELEASE	Beamformer	27G	31G	-	-
ADAR3006	ADAR3006 10.7 GHz to 12.75 GHz 4-beam/4-element Ku band beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	10.7G	12.75G	360	-
ADAR3007	ADAR3007 13.75GHz to 14.6 GHz 4-beam/4-element Ku band Beamformer	RECOMMENDED FOR NEW DESIGNS	Beamformer	13.75G	14.6G	360	-
ADMV1228	24.0 GHz to 29.5 GHz 2 Transmit/2 Receive Dual Polarization UDC + Beamformer	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	24G	29.5G	-	-
ADMV1239	37.0 GHz to 43.5 GHz 2 Transmit/2 Receive Dual Polarization UDC + Beamformer	PRE-RELEASE	Microwave and mmWave Tx/Rx	37G	43.5G	-	-
ADMV4728	47.2 GHz to 48.2 GHz Transmit/Receive Dual Polarization Beamformer	PRE-RELEASE	Beamformer, Vector Modulators	47.2G	48.2G	360	-

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Phase Range ^{typ}	IIP3 ^{typ}
HMC247-Die	400° Analog Phase Shifter Chip, 5 - 18 GHz	RECOMMENDED FOR NEW DESIGNS	Analog Control Phase Shifters	5G	18G	-	32
HMC500	HBT Vector Modulator SMT, 1.8 - 2.2 GHz	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	1.8G	2.2G	360	33
HMC630	HBT Vector Modulator SMT, 700 - 1000 MHz	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	700M	1G	360	34
HMC631	HBT Vector Modulator SMT, 1.8 - 2.7 GHz	RECOMMENDED FOR NEW DESIGNS	Vector Modulators	1.8G	2.7G	360	35
HMC642A	GaAs MMIC 6-Bit Digital Phase Shifter, 9 - 12.5 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	9G	12.5G	360	35
HMC647A	GaAs MMIC 6-BIT Digital Phase Shifter, 2.5-3.1 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	2.5G	3.1G	360	50
HMC649A	GaAs MMIC 6-Bit Digital Phase Shifter, 3 GHz to 6 GHz	RECOMMENDED FOR NEW DESIGNS	Digital Control Phase Shifters	3G	6G	360	40

Communications Analog Front Ends

Parts	Description	Product Lifecycle	RF Primary Function	Device Configuration	Resolution	Sample Rate ^{max}	Freq Response ^{min}	Freq Response ^{max}	RF Features
AD9084	Apollo MxFE Quad, 16-Bit, 28 GSPS RF DAC and Quad, 12-Bit, 20 GSPS RF ADC	PRE-RELEASE	Mixed Signal Front End, Narrow/Wideband RF Transceiver, RF Transceivers, Wideband RF Transceivers	-	-	20G	1M	18G	-
AD9088	Apollo MxFE Octal, 16-Bit, 16 GSPS RF DAC and Octal, 12-Bit, 8 GSPS RF ADC	PRE-RELEASE	Mixed Signal Front End, Narrow/Wideband RF Transceiver, RF Transceivers, Wideband RF Transceivers	-	-	8G	1M	12G	-
AD9081	MxFE™ Quad, 16-Bit, 12GSPS RFDAC and Quad, 12-Bit, 4GSPS RFADC	RECOMMENDED FOR NEW DESIGNS	IF/RF MxFE	4 x CH IF/RF-to-bits Tx/Rx Subsystem	16	4G	0	7G	2 Rx DPD Observer, Broadband Wireless, Wireless Infrastructure
AD9082	MxFE Quad, 16-Bit, 12 GSPS RF DAC and Dual, 12-Bit, 6 GSPS RF ADC	RECOMMENDED FOR NEW DESIGNS	IF/RF MxFE	4 x CH IF/RF-to-bits Tx/Rx Subsystem	12	6G	0	7G	2 Rx DPD Observer, Broadband Wireline, Triggered Frequency Hopping, Wireless Infrastructure
AD6688	RF Diversity and 1.2GHz BW Observation Receiver	RECOMMENDED FOR NEW DESIGNS	RF Sampling Receiver	2 Rx	14	3G	0	9G	Integrated DDC, Programmable FIR filter
AD6684	135 MHz Quad IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	14	500M	0	1.4G	Integrated DDC, Integrated NSR, VDR, Wireless Infrastructure
AD6679	135 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	14	500M	0	2G	Integrated DDC, NSR, Rx, VDR, Wireless Infrastructure
AD6674-1000	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	14	1G	0	2G	Integrated DDC, NSR, Rx, VDR, Wireless Infrastructure

	Description	Product Lifecycle	RF Primary Function	Device Configuration	Resolution	Sample Rate _{max}	Freq Response _{min}	Freq Response _{max}	RF Features
AD6674-500	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	14	500M	0	2G	Integrated DDC, NSR, Rx, VDR, Wireless Infrastructure
AD6674-750	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	14	750M	0	2G	Integrated DDC, NSR, Rx, VDR, Wireless Infrastructure
AD6676	Wideband IF Receiver Subsystem	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	16	3.2G	70M	450M	Integrated DDC, Internal PLL, Rx, Wireless Infrastructure
AD6673	80 MHz Bandwidth, Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	2 Rx (IF to Rx Subsystem)	11	250M	0	400M	Integrated NSR, Rx, Wireless Infrastructure
AD6657A	65MHz Bandwidth Quad IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	4 Rx (IF to Rx Subsystem)	11	200M	2.5M	400M	Integrated NSR, Rx, Wireless Infrastructure
AD6672	IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx (IF to Rx Subsystem)	11	250M	0	350M	Integrated NSR, Rx, Wireless Infrastructure
AD6641-500	250 MHz Bandwidth DPD Observation Receiver	RECOMMENDED FOR NEW DESIGNS	Cable Modem Baseband/IF Signal Processing	-	12	500M	-	-	1 DPD Observation Rx
AD6643-200	Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	11	200M	0	400M	Integrated NSR, Rx, Wireless Infrastructure
AD6643-250	Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx	11	250M	0	400M	Integrated NSR, Rx, Wireless Infrastructure
AD6649	IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	2 Rx (IF to Rx Subsystem)	14	250M	0	1G	Integrated DDC, Rx, Wireless Infrastructure
AD9961	10-/12-Bit, Low Power, Broadband MxFE	RECOMMENDED FOR NEW DESIGNS	IF MxFE	2 Rx (IF to Bits Rx Subsystem), 2 Tx	10	200M	2.5M	800M	Wireless Infrastructure
AD9963	10-/12-Bit, Low Power, Broadband MxFE	RECOMMENDED FOR NEW DESIGNS	IF MxFE	2 Rx (IF to Bits Rx Subsystem), 2 Tx	12	80M	2.5M	700M	Wireless Infrastructure
AD6642	Dual IF Receiver	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem)	11	200M	2.5M	800M	Wireless Infrastructure

	Description	Product Lifecycle	RF Primary Function	Device Configuration	Resolution	Sample Rate _{max}	Freq Response _{min}	Freq Response _{max}	RF Features
AD6655-105	IF Diversity Receiver	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem)	14	105M	0	450M	Integrated DDC, Rx, Wireless Infrastructure
AD6655-125	IF Diversity Receiver	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem)	14	125M	0	450M	Integrated DDC, Rx, Wireless Infrastructure
AD6655-150	IF Diversity Receiver	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem)	14	150M	0	450M	Integrated DDC, Rx, Wireless Infrastructure
AD6655-80	IF Diversity Receiver	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem)	14	80M	0	450M	Integrated DDC, Rx, Wireless Infrastructure
AD9868	Broadband Modem Mixed-Signal Front End	PRODUCTION	IF MxFE	1 Rx (Baseband CODEC), 1 Tx	10	80M	70M	300M	Integrated NSR, Narrowband Radio, Rx, Wireless Infrastructure
AD6650	Diversity IF-to-Baseband GSM/EDGE Narrow-Band Receiver	NOT RECOMMENDED FOR NEW DESIGNS	IF Receiver	2 Rx (IF to Rx Subsystem)	-	26M	70M	260M	Integrated NSR, Narrowband Radio (GSM EDGE), Rx, Wireless Infrastructure
MAX19713	10-Bit, 45Msps, Full-Duplex, Analog Front-End	PRODUCTION	High Speed Communications AFE	2 Rx, 2 Tx	10	45M	-	-	-
AD6600	Diversity Receiver Chipset	PRODUCTION	IF Receiver	2 Rx (IF to Rx Subsystem), 2 Tx	-	20M	70M	250M	Wireless Infrastructure
AD9874	Low Power IF Digitizing Subsystem	PRODUCTION	IF Receiver	1 Rx (IF to Bits Rx Subsystem)	24	26M	10M	300M	APCO25, GSM/EDGE, Rx, TETRA, Wireless Infrastructure
AD9864	IF Digitizing Subsystem	PRODUCTION	IF MxFE	1 Rx (IF to Bits Rx Subsystem)	-	18M	10M	300M	Internal PLL
AD9861-50	Mixed-Signal Front-End (MxFE™) Baseband Transceiver for Broadband Applications	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	2 Rx (Baseband Quadrature CODEC), 2 Tx	10	50M	0	-	1 Rx DPD Obserer Rx, Broadband Wireless, Internal PLL

	Description	Product Lifecycle	RF Primary Function	Device Configuration	Resolution	Sample Rate _{max}	Freq Response _{min}	Freq Response _{max}	RF Features
AD9861-80	Mixed-Signal Front-End (MxFE™) Baseband Transceiver for Broadband Applications	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	2 Rx (Baseband Quadrature CODEC), 2 Tx	10	80M	0	-	1 Rx DPD Obserer Rx, Broadband Wireless, Internal PLL
AD9865	Broadband Modem Mixed-Signal Front End	PRODUCTION	IF MxFE	1 Rx (Baseband CODEC), 1 Tx	10	80M	0	-	Internal PLL
AD9866	12-Bit Broadband Modem Mixed Signal Front End (MxFE®)	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	1 Rx (Baseband CODEC), 1 Tx	12	80M	0	1G	Integrated DDC, Rx, Wireless Infrastructure
AD9877	Single Supply Cable Modem/Set Top Box Mixed Signal Front End (MxFE®)	PRODUCTION	IF MxFE	1 Tx, 3 Rx Cable Modem AFE	8	16.5M	0	450M	MCNS-DOCSIS, Rx, Wireless Infrastructure
MAX19707	10-Bit, 45Msps, Ultra-Low-Power Analog Front-End	PRODUCTION	High Speed Communications AFE	2 Rx, 2 Tx	10	45M	-	-	-
MAX5864	Ultra-Low-Power, High-Dynamic-Performance, 22Msps Analog Front End	PRODUCTION	High Speed Communications AFE	2 Rx, 2 Tx	10	22M	-	-	-
MAX5865	Ultra-Low-Power, High-Dynamic-Performance, 40Msps Analog Front End	PRODUCTION	High Speed Communications AFE	2 Rx, 2 Tx	10	40M	-	-	-
MAX1005	IF Undersampler	PRODUCTION	IF Undersampler	1 Rx	7	15M	-	-	-
AD6677	-	RECOMMENDED FOR NEW DESIGNS	IF Receiver	1 Rx (IF to Rx Subsystem)	11	250M	0	400M	Integrated NSR, Rx, Wireless Infrastructure

Direct Digital Synthesis (DDS)

Parts	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word Width ^{max}	Power ^{typ}
AD9914S	3.5 GSPS Direct Digital Synthesizer with 12-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	3.5G	32	2.4
AD9177	Quad, 16-Bit, 12 GSPS RF DAC with Wideband Channelizers	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	4	16	12G	-	6.4
AD9166	DC to 9 GHz, Vector Signal Generator	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	-	-	-	4.88
AD9174	Dual, 16-Bit, 12.6 GSPS RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	2	16	12.6G	-	2.55
AD9164	16-Bit, 12 GSPS, RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	16	12G	-	2.35
AD9161	11-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	High Speed DAC	1	-	-	-	2.35
AD9162	16-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	High Speed DAC	1	-	-	-	2.35
AD9102	Low Power, 14-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	14	180M	24	96m
AD9106	Quad, Low Power, 12-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	4	12	180M	24	315m
AD9915	2.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	2.5G	32	2.2
AD9914	3.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	12	3.5G	32	2.4
MAX5882	14-Bit, 4.6Gsps Cable Downstream Direct RF Synthesis DAC	NOT RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	1	14	4.6G	-	2.3
MAX5879	14-Bit, 2.3Gsps Direct RF Synthesis DAC with Selectable Frequency Response	PRODUCTION	DDS, High Speed DAC	1	14	2.3G	-	2.3

	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word ^{max} Width	Power ^{typ}
AD9837	Low Power, 8.5 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	16M	28	12.21m
AD9838	11 mW Power, 2.3 V to 5.5 V, Complete DDS	PRODUCTION	DDS, Waveform Generator	1	10	16M	28	15.18m
AD9913	Low Power 250 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	250M	32	50m
AD9912	1 GSPS Direct Digital Synthesizer with 14-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	1G	48	637m
AD9911	500 MSPS Direct Digital Synthesizer with 10-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	500M	32	241m
AD9854	CMOS 300 MSPS Quadrature Complete DDS	PRODUCTION	DDS	2	12	300M	48	3.5
AD9956	2.7 GHz DDS-Based AgileRF™ Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	48	400m
AD9910	1 GSPS, 14-Bit, 3.3 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	1G	32	715m
AD9858	1 GSPS Direct Digital Synthesizer	PRODUCTION	DDS	1	10	1G	32	2
AD5933	1 MSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS, Impedance Calculator-DDS Core	1	12	16.776M	27	33m
AD5934	250 kSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS, Impedance Calculator-DDS Core	1	12	16.776M	27	33m
AD9954	400 MSPS, 14-Bit, 1.8 V CMOS, Direct Digital Synthesizer	PRODUCTION	DDS	1	14	400M	32	162m
AD9834	20 mW Power, 2.3 V to 5.5 V, 75 MHz Complete DDS	PRODUCTION	DDS, Waveform Generator	1	10	75M	28	19.14m
AD9952	400 MSPS 14-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m

	Description	Product Lifecycle	Device Primary Function	# of Channels	DAC Resolution	Clock Input ^{max}	Tuning Word ^{max} Width	Power ^{typ}
AD5932	Programmable Frequency Scan Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	50M	24	20.26m
AD9958	2-Channel, 500 MSPS DDS with 10-Bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	2	10	500M	32	350m
AD9959	4 Channel 500 MSPS DDS with 10-bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	4	10	500M	32	580m
AD5930	Programmable Frequency Sweep and Output Burst Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	50M	24	20.26m
AD9830	Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	1	10	50M	32	250m
AD9831	Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	1	10	25M	32	40m
AD9832	25 MHz Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	1	10	25M	32	87.5m
AD9833	Low Power, 12.65 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	1	10	25M	28	14.85m
AD9835	50 MHz Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	1	10	50M	32	73.5m
AD9851	180 MHz Complete DDS synthesizer	PRODUCTION	DDS	1	10	180M	32	555m
AD9859	400 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	10	400M	32	162m
AD9951	400 MSPS 14-Bit 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m
AD9953	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	1	14	400M	32	162m
AD9850	CMOS, 125 MHz Complete DDS Synthesizer	PRODUCTION	DDS	1	10	125M	32	380m

Frequency Dividers, Multipliers, and Detectors

Parts	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
ADH561S	Aerospace GaAs, Broadband Frequency Multiplier, 8 to 21 GHz, Die	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	4G	10.5G	8G	21G	-	-	5
ADH814S	Aerospace GaAs, Broadband Frequency Multiplier, 13 to 24.6 GHz, Die	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	6.5G	12.3G	13G	24.6G	-	-	5
ADH365S	Space SMT MMIC Divide-By-4, DC to 13 GHz	RECOMMENDED FOR NEW DESIGNS	Frequency Divider	1G	13G	-	-	-	13	5
HMC8342	GaAs MMIC ×2 Active Frequency Multiplier, 22 GHz to 42 GHz Output	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	11G	21G	22G	42G	0	10	5
ADH363S	Space DC to 12 GHz Divide-by-8	RECOMMENDED FOR NEW DESIGNS	Frequency Divider	1G	12G	125M	1.5G	-15	10	5
ADH361S	Space SMT MMIC Divide-By-2, DC to 12 GHz	RECOMMENDED FOR NEW DESIGNS	Frequency Divider	1G	12G	-	-	-10	10	-
ADAR2001	10 GHz to 40 GHz, 1:4 Channel, 4× Frequency Multiplier/Filter	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers, Microwave and mmWave Tx/Rx	2.5G	10G	10G	40G	-25	-10	2.5
HMC862A	0.1 GHz to 24 GHz, Low Noise, Programmable Divider	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	100M	24G	12.5M	18G	-15	10	5
HMC3716	HBT Digital Phase Frequency Detector 10 - 1300 MHz	PRODUCTION	Phase Frequency Detectors	10M	1.3G	-	-	-10	5	5

	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
HMC1096	GaAs pHEMT MMIC x2 Active Frequency Multiplier, 3.8-5.6 GHz Output	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	1.9G	2.8G	3.8G	5.6G	-2	5	5
ADF5000	4 GHz TO 18 GHz Divide-by-2 Prescaler	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	4G	18G	2G	9G	-10	10	3.3
ADF5002	4 GHz TO 18 GHz Divide-by-8 Prescaler	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	4G	18G	500M	2.25G	-10	10	3.3
ADF5001	4 GHz TO 18 GHz Divide-by-4 Prescaler	PRODUCTION	Dividers Prescalers and Counters	4G	18G	1G	4.5G	-10	10	3.3
HMC561-Die	x2 Active Multiplier Chip, 8 - 21 GHz Fout	PRODUCTION	Frequency Multipliers	4G	10.5G	8G	21G	0	6	5
HMC-XDB112	x2 Passive Frequency Multiplier Chip, 20 - 30 GHz Output	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	10G	15G	20G	30G	10	15	-
HMC-XTB110	Passive x3 Frequency Multiplier, 24 - 30 GHz Input	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	24G	30G	70G	90G	10	15	-
HMC1105	GaAs MMIC x2 Passive Frequency Multiplier, 20 - 40 GHz Input	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	20G	40G	40G	80G	11	15	-
HMC1110	GaAs MMIC X6 Active Frequency Multiplier, 71-86 GHz	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	11.83G	14.33G	71G	86G	3	6	3
HMC361-Die	InGaP HBT Divide-By-2 Chip, DC - 11 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	12G	100M	6G	-10	2	5
HMC361G8	SMT MMIC Divide-By-2, 0.1 - 13 GHz	PRODUCTION	Dividers Prescalers and Counters	10M	13G	5M	6.5G	-15	0	5

	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
HMC361S8G	SMT GaAs HBT MMIC Divide-by-2, DC - 10 GHz	PRODUCTION	Dividers Prescalers and Counters	400M	10G	200M	5G	-15	10	5
HMC362-Die	InGaP HBT Divide-by-4 Chip, DC - 11 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	12G	50M	3.25G	-10	2	5
HMC362S8G	SMT GaAs HBT MMIC Divide-by-4, DC - 12 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	12G	50M	3.25G	-15	10	5
HMC363-Die	InGaP HBT Divide-by-8 Chip, DC - 12 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	13G	25M	1.625G	-10	2	5
HMC363G8	InGaP HBT Divide-by-8 Hermetic SMT, DC - 12 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	12G	25M	1.625G	-15	10	5
HMC363S8G	SMT GaAs HBT MMIC Divide-by-8, DC - 12 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	13G	25M	1.625G	-10	2	5
HMC365-Die	InGaP HBT Divide-by-4 Chip, DC - 13 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	14G	50M	3.5G	-10	3	5
HMC365G8	InGaP HBT Divide-by-4 SMT, DC - 13 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	14G	50M	3.5G	-10	5	5
HMC365S8G	InGaP HBT Divide-by-4 SMT, DC - 13 GHz	PRODUCTION	Dividers Prescalers and Counters	200M	14G	50M	3.5G	-10	3	5
HMC368	x2 Active Multiplier SMT, 9 - 16 GHz FOUT	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	4.5G	8G	9G	16G	2	2	5
HMC369	X2 Active Multiplier, 9.9 - 12.7 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	4.95G	6.35G	9.9G	12.7G	0	5	5

	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
HMC370	x4 Active Multiplier SMT, 14.4 - 16.4 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	3.6G	4.1G	14.4G	16.4G	-15	5	5
HMC394	Programmable 5-Bit Counter SMT, DC - 2.2 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	100M	2.2G	-	-	-15	10	5
HMC432	InGaP HBT Divide-by-2 SMT, DC - 8 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	8G	100M	4G	-12	12	3
HMC433	InGaP HBT Divide-by-4 SMT, DC - 8 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	8G	50M	2G	-12	12	3
HMC434	0.2 GHz to 8 GHz, GaAs, HBT MMIC, Divide by 8 Prescaler	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	8G	25M	1G	-10	12	3
HMC437	InGaP HBT Divide-by-3 SMT, DC - 7 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	100M	7G	33.3M	2.334G	-12	12	5
HMC438	SMT GaAs HBT MMIC Divide-by-5, DC - 7 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	100M	7G	20M	1.4G	-15	10	5
HMC439	Digital Phase-Frequency Detector SMT, 0.01 - 1.3 GHz	RECOMMENDED FOR NEW DESIGNS	Phase Frequency Detectors	10M	1.3G	-	-	-10	10	5
HMC443	x4 Active Multiplier SMT, 9.8 - 11.2 GHz Fout	PRODUCTION	Frequency Multipliers	2.45G	2.8G	9.8G	11.2G	-15	5	5
HMC444	Active x8 Multiplier SMT, 9.9 - 11.2 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	1.238G	1.4G	9.9G	11.2G	-15	5	5
HMC445	x16 Active Multiplier SMT, 9.9 to 11.2 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	618.8M	687.5M	9.9G	11G	-15	-	5

	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
HMC447	InGaP HBT Divide-by-4 SMT, 10 - 26 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	10G	26G	2.25G	6.75G	-15	10	5
HMC448-Die	x2 Active Multiplier Chip, 19 - 25 GHz Fout	PRODUCTION	Frequency Multipliers	9.5G	12.5G	19G	25G	-4	6	5
HMC448LC3B	x2 Active Multiplier SMT, 20 - 25 GHz	PRODUCTION	Frequency Multipliers	10G	12.5G	20G	25G	-4	6	5
HMC492	InGaP HBT Divide-by-2 SMT, DC - 18 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	18G	100M	9G	-20	10	5
HMC493	InGaP HBT Divide-by-4 SMT, DC - 18 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	18G	50M	4.5G	-20	10	5
HMC494	InGaP HBT Divide-by-8 SMT, DC - 18 GHz	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	200M	18G	25M	2.25G	-20	10	5
HMC561LP3	x2 Active Multiplier SMT, 8 - 21 GHz Fout	PRODUCTION	Frequency Multipliers	4G	10.5G	8G	21G	0	6	5
HMC573	x2 Active Multiplier SMT, 8 to 22 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	4G	11G	8G	22G	5	8	5
HMC575	x2 Active Multiplier SMT, 6 - 9 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	3G	4.5G	6G	9G	3	6	5
HMC576-Die	x2 Active Multiplier Chip, 18 - 29 GHz Fout	PRODUCTION	Frequency Multipliers	9G	14.5G	18G	29G	-2	6	5
HMC576LC3B	x2 Active Multiplier SMT, 18 - 29 GHz Fout	PRODUCTION	Frequency Multipliers	9G	14.5G	18G	29G	3	6	5
HMC577	x2 Active Multiplier SMT, 27 - 31 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	13.5G	15.5G	27G	31G	5	6	5
HMC578-Die	x2 Active Multiplier Chip, 24 - 33 GHz Fout	PRODUCTION	Frequency Multipliers	12G	16.5G	24G	33G	0	6	5

	Description	Product Lifecycle	RF Primary Function	Input Frequency _{min}	Input Frequency _{max}	Output Frequency _{min}	Output Frequency _{max}	Input Power _{min}	Input Power _{max}	Vs typ
HMC578LC3B	x2 Active Multiplier SMT, 24 - 33 GHz Fout	PRODUCTION	Frequency Multipliers	11.5G	16.5G	23G	33G	3	6	5
HMC579	x2 Active Multiplier Chip, 32 - 46 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	16G	23G	32G	46G	3	6	5
HMC598	x2 Active Multiplier Chip, 22 - 46 GHz Fout	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	11G	23G	22G	46G	5	6	5
HMC695	x4 Active Multiplier, 11.4 - 13.2 GHz Output	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	2.85G	3.3G	11.4G	13.2G	-15	5	5
HMC705	6.5 GHz Programmable Divider (N = 1 to 17) SMT	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	100M	6.5G	-	-	-15	10	5
HMC814-Die	x2 Active Multiplier Chip, 13 - 24.6 GHz Fout	PRODUCTION	Frequency Multipliers	6.5G	12.3G	13G	24.6G	0	6	5
HMC814LC3B	x2 Active Multiplier SMT, 13 - 24.6 GHz Fout	PRODUCTION	Frequency Multipliers	6.5G	12.3G	13G	24.6G	4	6	5
HMC905	6 GHz Low Noise Programmable Divider (N = 1 to 4) SMT	RECOMMENDED FOR NEW DESIGNS	Dividers Prescalers and Counters	400M	6G	-	-	0	10	3.3
HMC942	x2 Active Multiplier, 25 - 31 GHz Output	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers	12G	15.5G	25G	31G	4	6	4.5

I/Q Modulators and Demodulators

Parts	Description	Product Lifecycle	RF Primary Function	Freq Response RF min	Freq Response RF max	Freq BB 3 dB BW typ	IIP3 typ	OIP3 typ	Is typ	Vs typ
ADMV4540	K Band Quadrature Demodulator with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters, Downconverters/Receivers, Downconverting Mixer, I/Q Demodulator w/ LO, I/Q Demodulator with Output Amplifiers	17G	21G	900M	-3	-	980m	3.3 V
ADMV4530	Dual-mode, Ka Band Upconverter with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	IF Upconverter/Transmitter, IQ Upconverters/Transmitters	27G	31G	-	29	-	-	-
ADMV1013	24 GHz to 44 GHz, Wideband, Microwave Upconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators, IQ Upconverters/Transmitters	24G	44G	6G	-	23	550m	1.5 V, 1.8 V, 3.3 V
ADMV1014	24 GHz to 44 GHz, Wideband, Microwave Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulators, I/Q Downconverters/Receivers	24G	44G	6G	0	-	437	1.5 V, 1.8 V, 3.3 V
LTC5594	300MHz to 9GHz High Linearity I/Q Demodulator with Wideband IF Amplifier	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulator with Output Amplifiers, I/Q Demodulators	300M	9G	1G	30.8	40	470m	5 V
ADRF6821	450 MHz to 2800 MHz, DPD RFIC with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulator w/ LO	450M	2.8G	1G	-	32	545m	3.3 V
LTC5586	6GHz High Linearity I/Q Demodulator with Wideband IF Amplifier	PRODUCTION	I/Q Demodulator with Output Amplifiers, I/Q Demodulators	300M	6G	1G	30	-	440m	5 V
LTC5589	700MHz to 6GHz Low Power Direct Quadrature Modulator	PRODUCTION	I/Q Modulators	700M	6G	167M	-	17.5	29.5m	3 V, 3.3 V
ADRF6780	5.9 GHz to 23.6 GHz, Wideband, Microwave Upconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators, IQ Upconverters/Transmitters	5.9G	23.6G	750M	-	27	521m	1.8 V, 3.3 V, 5 V

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq BB 3 dB BW ^{typ}	IIP3 ^{typ}	OIP3 ^{typ}	Is ^{typ}	Vs ^{typ}
LTC5599	30MHz to 1300MHz Low Power Direct Quadrature Modulator	PRODUCTION	I/Q Modulators	30M	1.3G	57M	-	20.8	28m	3 V, 3.3 V
HMC1197	Wideband Direct Quadrature Modulator w/ Fractional-N PLL & VCO, 100 - 4000 MHz	LAST TIME BUY	I/Q Modulator w/ LO	100M	4G	600M	-	30	320m	3.3 V, 5 V
LTC5584	30MHz to 1.4GHz IQ Demodulator with IIP2 and DC Offset Control	PRODUCTION	I/Q Demodulators	30M	1.4G	530M	31	-	200m	5 V
LTC5585	Wideband IQ Demodulator with IIP2 and DC Offset Control	PRODUCTION	I/Q Demodulators	700M	3G	530M	28.7	-	200m	5 V
ADRF6755	100 MHz TO 2400 MHz I/Q Modulator with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	I/Q Modulator w/ LO	300M	2.31G	600M	20.5	21	350m	5 V
ADRF6850	100 MHz to 1000 MHz Integrated Broadband Receiver	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulator w/ LO	100M	1G	300M	22.5	-	350m	3 V, 3.3 V
LTC5588-1	200MHz to 6000MHz Quadrature Modulator with Ultrahigh OIP3	PRODUCTION	I/Q Modulators	200M	6G	500M	-	30.9	303m	3.3 V
AD8346S	Aerospace 2.5 GHz Direct Conversion Quadrature Modulator	PRODUCTION	-	800M	2.5G	-	-	-	-	3 V, 5 V
LTC5598	5MHz to 1600MHz High Linearity Direct Quadrature Modulator	LAST TIME BUY	I/Q Modulators	5M	1.6G	400M	-	25.5	165m	5 V
ADRF6750	950 MHz to 1575 MHz Quadrature Modulator with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	I/Q Modulator w/ LO	950M	1.575G	600M	23	23	310m	5 V
ADF9010	900 MHz ISM Band Analog RF Front End	PRODUCTION	IF MxFE	-	-	-	-	24	-	3 V

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq BB 3 dB BW ^{typ}	IIP3 ^{typ}	OIP3 ^{typ}	Is ^{typ}	Vs ^{typ}
ADL5380	400 MHz TO 6000 MHz Quadrature Demodulator	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulators	400M	6G	390M	27.8	-	245m	5 V
ADL5375	400 MHz TO 6 GHz Broadband Quadrature Modulator	PRODUCTION	I/Q Modulators	400M	6G	750M	23.4	26.8	194m	5 V
ADL5382	700 MHz TO 2700 MHz Quadrature Demodulator	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulators	700M	2.7G	370M	30.5	-	220m	5 V
ADL5590	869 MHz TO 960 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	869M	900M	250M	-	29	170m	5 V
ADL5591	1805 MHz TO 1990 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	805M	1.905G	250M	-	30	170m	5 V
AD8333	DC to 50 MHz, Dual I/Q Demodulator and Phase Shifter	PRODUCTION	I/Q Demodulators	0	50M	50M	30	-	44m	+/-5
AD8339	DC to 50 MHz, Quad I/Q Demodulator and Phase Shifter	PRODUCTION	I/Q Demodulators	0	50M	50M	31	-	35m	+/-5
ADL5387	30 MHz TO 2 GHz Quadrature Demodulator	PRODUCTION	I/Q Demodulators	30M	2G	240M	31	-	180m	5 V
ADL5373	2300 MHz TO 3000 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	2.3G	3G	500M	-	26	174m	5 V
LT5571	620MHz - 1100MHz High Linearity Direct Quadrature Modulator	LAST TIME BUY	I/Q Modulators	620M	1.1G	400M	-	21.7	97m	5 V
LT5575	800MHz to 2.7GHz High Linearity Direct Conversion Quadrature Demodulator	PRODUCTION	I/Q Demodulators	800M	2.7G	490M	28	-	132m	5 V
ADL5371	500 MHz TO 1500 MHz Quadrature Modulator	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators	500M	1.5G	500M	-	27	175m	5 V
ADL5372	1500 MHz TO 2500 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	1.5G	2.5G	500M	27	27	165m	5 V

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq BB 3 dB BW ^{typ}	IIP3 ^{typ}	OIP3 ^{typ}	Is ^{typ}	Vs ^{typ}
ADL5370	300 MHz TO 1000 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	300M	1G	500M	-	24	205m	5 V
ADL5385	30 MHz TO 2200 MHz Quadrature Modulator	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators	30M	2.2G	500M	26	26	215m	5 V
MAX2023	High-Dynamic-Range, Direct Up-/Downconversion 1500MHz to 2500MHz Quadrature Mod/Demod	PRODUCTION	I/Q Demodulators, I/Q Modulators	1.5G	2.3G	-	38	23.5	295m	5 V
AD8348	50 MHz to 1000 MHz Quadrature Demodulator	PRODUCTION	I/Q Demodulators	50M	1G	125M	28	-	51m	3 V, 5 V
LT5558	600MHz to 1100MHz High Linearity Direct Quadrature Modulator	LAST TIME BUY	I/Q Modulators	600M	1.1G	400M	-	22.4	108m	5 V
MAX2021	High-Dynamic-Range, Direct Up-/Downconversion 650MHz to 1200MHz Quadrature Mod/Demod	PRODUCTION	I/Q Demodulators, I/Q Modulators	750M	1.2G	-	35.2	21	271m	5 V
LT5572	1.5GHz to 2.5GHz High Linearity Direct Quadrature Modulator	PRODUCTION	I/Q Modulators	1.5G	2.5G	460M	-	21.6	120m	5 V
AD8345	140 MHz to 1000 MHz Quadrature Modulator	PRODUCTION	I/Q Modulators	140M	1G	80M	25	25	62m	3 V, 5 V
LT5568	700MHz to 1050MHz High Linearity Direct Quadrature Modulator	PRODUCTION	I/Q Modulators	600M	1.2G	380M	-	22.9	117m	5 V
LT5568-2	GSM/EDGE Optimized, High Linearity Direct Quadrature Modulator	PRODUCTION	I/Q Modulators	600M	1.1G	380M	-	22.9	110m	5 V
AD8347	800 MHz TO 2.7 GHz RF / IF Quadrature Demodulator	PRODUCTION	I/Q Demodulators	800M	2.7G	65M	11.5	-	68m	3 V, 5 V

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq BB 3 dB BW ^{typ}	IIP3 ^{typ}	OIP3 ^{typ}	Is ^{typ}	Vs ^{typ}
AD8346	2.5 GHz Direct Conversion Quadrature Modulator	PRODUCTION	I/Q Modulators	800M	2.5G	70M	20	20	45m	3 V, 5 V
MAX2022	High-Dynamic-Range, Direct Up/Downconversion 1500MHz to 3000MHz Quadrature Modulator/Demodulator	PRODUCTION	I/Q Demodulators, I/Q Modulators	1.5G	3G	-	39	23.3	292m	5 V
LT5518	1.5GHz - 2.4GHz High Linearity Direct Quadrature Modulator	LAST TIME BUY	I/Q Modulators	1.5G	2.4G	400M	-	22.8	128m	5 V
LT5528	1.5GHz to 2.4GHz High Linearity Direct Quadrature Modulator	LAST TIME BUY	I/Q Modulators	1.5G	2.4G	400M	-	21.8	125m	5 V
AD8349	700 MHz TO 2.7 GHz Direct Up-Conversion Quadrature Modulator	PRODUCTION	I/Q Modulators	700M	2.7G	160M	21	21	135m	5 V
LT5517	40MHz to 900MHz Quadrature Demodulator	PRODUCTION	I/Q Demodulators	40M	900M	130M	21	-	90m	5 V
LT5515	1.5GHz to 2.5GHz Direct Conversion Quadrature Demodulator	LAST TIME BUY	I/Q Demodulators	1.5G	2.5G	260M	20	-	125m	5 V
LT5516	800MHz to 1.5GHz Direct Conversion Quadrature Demodulator	PRODUCTION	I/Q Demodulators	800M	1.5G	260M	21.5	-	117m	5 V
HMC1097	Wideband Direct Quadrature Modulator, 100 - 6000 MHz	LAST TIME BUY	I/Q Modulators	100M	6G	700M	-	29	170m	5 V
HMC795	SiGe Wideband Direct Quadrature Modulator SMT, with VGA, 50 - 2800 MHz	LAST TIME BUY	I/Q Modulators	50M	2.8G	440M	-	25	120m	3.3 V, 5 V

Phase Locked Loop (PLL) Synthesizer & Translation Loop

Parts	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF41510	10 GHz, Integer-N/Fractional-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise	No	1G	10G	800M	-128	-235	-	3.15	3.45
ADF4378	Microwave Wideband Synthesizer with Integrated VCO and Deterministic General-Purpose Pulse Retimer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	1G	-147	-239	-	3.15	5.25
ADF4382A	2.87GHz to 21GHz Fractional-N PLL/VCO for High Performance Converter Clocking Applications	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	2.875G	21G	4.5G	-147	-239	-	3.15	5.25
ADF4368	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	4G	-147	-239	-	3.15	5.25

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4377	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL, Low Phase Noise, PLL with Integrated VCO	Yes	800M	12.8G	1G	-147	-239	-	3.15	5.25
ADF4401A	Translation Loop, PLL, VCO Module	RECOMMENDED FOR NEW DESIGNS	Translation Loop PLL VCO module	Yes	62.5M	8G	500M	-	-	676m	3.15	5.25
ADF4372	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	62M	16G	600M	-127	-234	270M	3.15	3.45
ADF41513	26.5 GHz, Integer N/Fractional-N, PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	1G	26.5G	800M	-128	-235	74.7m	3.135	3.465
ADF4371	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	62.5M	32G	600M	-127	-234	260m	3.15	3.45
ADF5356	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	13.6G	600M	-121	-227	126m	3.15	5.25
ADF4356	6.8 GHz Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	6.8G	600M	-121	-227	166m	3.15	3.45
ADF4152HV	High Voltage, Fractional-N/Integer N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	5G	300M	-113	-213	50m	3	3.6

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
HMC4069	2.9 GHz Integer-N Synthesizer (N = 2 - 32)	PRODUCTION	Integer-N PLL	No	10M	2.9G	1.3G	-144	-233	295m	4.75	5.25
ADF4355-3	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	51.565M	6.6G	600M	-116	-223	146m	3.1515	3.4485
ADF4169	Direct Modulation/Fast Waveform Generating, 13.5 GHz, Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	13.5G	260M	-120	-224	39m	2.7	3.45
ADF4355	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	6.8G	600M	-116	-223	140m	3.15	3.45
ADF4355-2	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	53.125M	4.4G	600M	-116	-223	140m	3.15	3.45
ADF5355	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	54M	13.6G	600M	-116	-223	140m	3.15	3.45
MAX2871	23.5MHz to 6000MHz Fractional/Integer-N Synthesizer/VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	23.5M	6G	210M	-	-	165m	3	3.6
LTC6947	Ultralow Noise 0.35GHz to 6GHz Fractional-N Synthesizer	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	No	350M	6G	425M	-134	-225	133m	3.15	3.45

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
LTC6948-1	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	370M	3.74G	425M	-134	-226	48m	3.15	3.45
LTC6948-2	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	510M	4.91G	425M	-134	-226	48m	3.15	3.45
LTC6948-3	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	640M	5.79G	425M	-134	-226	48m	3.15	3.45
LTC6948-4	Ultralow Noise 0.37GHz to 6.39GHz Fractional-N Synthesizer with Integrated VCO	LAST TIME BUY	Fractional-N PLL, Integer-N PLL	Yes	700M	6.39G	425M	-134	-226	48m	3.15	3.45
ADF4155	Integer-N / Fractional-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	8G	600M	-116	-223	38m	3.135	3.465
MAX2880	250MHz to 12.4GHz, High-Performance, Fractional/Integer-N PLL	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	250M	12.4G	210M	-	-	49m	3	3.6
ADF4108S	Aerospace PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	7G	250M	-	-	-	3.2	3.6

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4153A	Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-121	-223	20m	2.7	3.3
ADF4159	Direct Modulation/Fast Waveform Generating, 13 GHz, Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	13G	260M	-120	-224	33m	2.7	3.45
MAX2870	23.5MHz to 6000MHz Fractional/Integer-N Synthesizer/VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	23.5M	6G	200M	-	-	144m	3	3.6
ADF4151	Fractional-N/Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	3.5G	250M	-118	-221	42m	3	3.6
ADF41020	18 GHz Microwave PLL Synthesizer	NOT RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	4G	18G	400M	-118	-221	30m	2.85	3.15
ADF4196	Low Phase Noise, Fast Settling 6 GHz PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	400M	6G	300M	-110	-216	68m	2.7	3.3
ADF4351	Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	Yes	35M	4.4G	250M	-118	-221	110m	3	3.6
ADF4150HV	High Voltage, Fractional-N / Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	10M	3G	300M	-113	-213	50m	3	3.6

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4158	Direct Modulation/Waveform Generating, 6.1 GHz Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	6.1G	260M	-110	-216	23m	2.7	3.3
ADF4150	Fractional-N/Integer-N PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	5G	250M	-123	-223	50m	3	3.6
ADF4350	Wideband Synthesizer with Integrated VCO	PRODUCTION	Fractional-N PLL, Integer-N PLL	Yes	137.5M	4.4G	250M	-111	-220	110m	3	3.6
ADF4360-9	Clock Generator PLL with Integrated VCO	PRODUCTION	Integer-N PLL	Yes	2M	200M	250M	-	-218	23m	3	3.6
ADF4157	High Resolution 6 GHz Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	6G	250M	-110	-211	23m	2.7	3.3
ADF4113HV	High Voltage Charge Pump, PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	200M	3.7G	150M	-	-212	11m	2.7	5.5
ADF4212L	Dual Power PLL Frequency Synthesizer	PRODUCTION	Dual PLL, Integer-N PLL	No	200M	2.4G	150M	-	-215	7.5m	2.7	3.3
ADF4154	Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-114	-220	20m	2.7	3.3

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4156	6.2 GHz Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	6.2G	250M	-110	-220	26m	2.7	3.3
ADF4002	Phase Detector / PLL Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	5M	400M	300M	-119	-222	5m	2.7	3.3
ADF4108	8 GHz integer-N PLL	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	8G	250M	-122	-223	15m	3.2	3.6
MAX9491	Factory-Programmable, Single PLL Clock Generator	PRODUCTION	Fractional-N PLL	Yes	4M	200M	-	-	-	10m	3	3.6
ADF4208	Dual, Integer-N 1.1 GHz / 2.0 GHz PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	80M	2G	400M	-	-217	14m	2.7	5.5
ADF4001	200 MHz Clock Generator PLL	PRODUCTION	Integer-N PLL	No	10M	200M	104M	-	-217	4.5m	2.7	5.5
ADF4007	High Frequency Divider/PLL Synthesizer	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	1G	7.5G	240M	-	-219	15m	2.7	3.3
ADF4107	7 GHz integer-N PLL	PRODUCTION	Integer-N PLL	No	1G	7G	250M	-122	-223	17m	2.7	3.3
ADF4110	Single, Integer-N, 550 MHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	50M	550M	104M	-	-213	4.5m	2.7	5.5
ADF4111	Single, Integer-N, 1.2 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	80M	1.2G	104M	-	-213	4.5m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4112	Single, Integer-N 3.0 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	100M	3G	104M	-	-215	6.5m	2.7	5.5
ADF4113	Single, Integer-N 4.0 GHz PLL With Programmable Prescaler And Charge Pump	PRODUCTION	Integer-N PLL	No	200M	3.7G	104M	-	-217	8.5m	2.7	5.5
ADF4218L	Low Power dual RF/IF Integer-N PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	150M	3G	110M	-	-216	7m	2.7	3.3
ADF4252	Dual Fractional-N/ Integer-N Frequency Synthesizer	PRODUCTION	Dual PLL, Fractional-N PLL, Integer-N PLL	No	250M	3G	250M	-	-214	13m	2.7	3.3
ADF4360-3	Integrated Integer-N Synthesizer and VCO - Output Frequency 1600 to 1950	PRODUCTION	Integer-N PLL	Yes	1.6G	1.95G	250M	-	-216	35m	3	3.6
ADF4360-7	Integrated Synthesizer and VCO	PRODUCTION	Integer-N PLL	Yes	350M	1.8G	250M	-	-216	37.5m	3	3.6
ADF4193	Low Phase Noise, Fast Settling PLL Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	400M	3.5G	300M	-110	-216	68m	2.7	3.3
ADF4153	Fractional-N Frequency Synthesizer	PRODUCTION	Fractional-N PLL, Integer-N PLL	No	500M	4G	250M	-114	-223	20m	2.7	3.3

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4106	6 GHz integer-N PLL	PRODUCTION	Integer-N PLL	No	500M	6G	300M	-122	-223	13m	2.7	3.3
ADF4360-4	Integrated Integer-N Synthesizer and VCO - Output Frequency 1450 to 1750	PRODUCTION	Integer-N PLL	Yes	1.45G	1.75G	250M	-	-216	35m	3	3.6
ADF4360-5	Integrated Integer-N Synthesizer and VCO - Output Frequency 1200 to 1400	PRODUCTION	Integer-N PLL	Yes	1.2G	1.4G	250M	-	-216	35m	3	3.6
ADF4360-6	Integrated Integer-N Synthesizer and VCO - Output Frequency 1050 to 1250	PRODUCTION	Integer-N PLL	Yes	1.05G	1.25G	250M	-	-216	35m	3	3.6
ADF4360-0	Integrated Integer-N Synthesizer/VCO Output Frequency 2400-2725	PRODUCTION	Integer-N PLL	Yes	2.4G	2.725G	250M	-	-216	35m	3	3.6
ADF4360-1	Integrated Integer-N Synthesizer and VCO - Output Frequency 2050 to 2450	PRODUCTION	Integer-N PLL	Yes	2.05G	2.45G	250M	-	-216	35m	3	3.6
ADF4360-2	Integrated Integer-N Synthesizer and VCO - Output Frequency 1850 to 2170	PRODUCTION	Integer-N PLL	Yes	1.85G	2.17G	250M	-	-216	35m	3	3.6
ADF4360-8	Integrated Integer-N Synthesizer and VCO - Output Frequency 65 to 400	PRODUCTION	Integer-N PLL	Yes	65M	400M	250M	-	-216	35m	3	3.6
ADF4116	Single, Integer-N 550 MHz PLL	PRODUCTION	Integer-N PLL	No	80M	550M	100M	-	-211	4.5m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	Integrated VCO	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Ref Input ^{max}	1/f Noise (10kHz Offset at 1GHz Carrier) ^{typ}	FOM-Normalized Inband PN Int-N ^{typ}	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADF4117	Single, Integer-N 1.2 GHz PLL	PRODUCTION	Integer-N PLL	No	100M	1.2G	100M	-	-213	4.5m	2.7	5.5
ADF4118	Single, Integer-N, 3.0 GHz PLL	PRODUCTION	Integer-N PLL	No	100M	3G	100M	-	-216	6.5m	2.7	5.5
ADF4212	Dual, Integer-N 0.5 GHz / 3.0 GHz PLL	PRODUCTION	Dual PLL, Integer-N PLL	No	60M	2.7G	115M	-	-	13m	2.7	5.5
AD809	155 MHz Frequency Synthesizer	PRODUCTION	PLO (Fixed Integer)	Yes	155.5M	155.5M	19.44M	-	-	17m	4.5	5.5
HMC440	SMT 2.8 GHz Integer-N Synthesizer (N = 2 - 32)	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	10M	2.8G	1.3G	-142	-233	250m	4.75	5.25
HMC535	Phase-Locked Oscillator SMT, 14.7 - 15.4 GHz	RECOMMENDED FOR NEW DESIGNS	PLO (Fixed Integer)	Yes	14.7G	15.4G	240.6M	-	-110	340m	-	-
HMC698	7 GHz Integer-N Synthesizer SMT	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	80M	7G	1.3G	-151	-233	310m	4.75	5.25
HMC699	7 GHz Integer-N Synthesizer SMT	RECOMMENDED FOR NEW DESIGNS	Integer-N PLL	No	160M	7G	1.3G	-151	-233	310m	4.75	5.25

Quadrature Digital Up Converters (QDUC)

Parts	Description	Product Lifecycle	# of Channels	Clock Input ^{max}	Ref Clock Multiplier Range	Tuning Word Width ^{max}	DAC Resolution	Iout FS ^{max}	Data Output Interface	Power typ
AD9177	Quad, 16-Bit, 12 GSPS RF DAC with Wideband Channelizers	RECOMMENDED FOR NEW DESIGNS	4	12G	-	-	16	40m	-	6.4
AD9957	1 GSPS Quadrature Digital Upconverter with 18-Bit I/Q Data Path and 14-Bit DAC	RECOMMENDED FOR NEW DESIGNS	1	1G	12 to 127	32	14	30m	SPI	1.4
AD9857	CMOS 200 MSPS 14-Bit Quadrature Digital Upconverter	PRODUCTION	1	200M	4 to 20	32	14	20m	SPI	2
AD9856	CMOS 200 MHz Quadrature Digital Upconverter	PRODUCTION	1	200M	4 to 20	32	12	20m	SPI	1.6

RF Amplifiers

Parts	Description	RF Primary Function	Freq Response RFmin	Freq Response RFmax	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADL8122	10 kHz to 10 GHz, Wideband, Low Noise Amplifier	LNA, LNA High Survivability, Low Phase Noise	10k	10G	17	33.5	95m	8-lead LFCSP 2 mm × 2 mm × 0.85	1	3	6
ADL8120	30 kHz to 20 GHz, Ultra-Wideband, Low Noise Amplifier	LNA, LNA High Survivability	30k	20G	14	29.5	55m	8-lead LFCSP 2 mm × 2 mm × 0.85	1	-	5.5
ADPA1116	0.3 GHz to 6 GHz, 39.5 dBm, GaN Power Amplifier	GaN Power Amp, Power Amp, Wideband Distributed Amps	300M	6G	-	39	300m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	-	35
ADPA9007-2	DC to 28 GHz, GaAs, pHEMT, 2 W Power Amplifier	Power Amp	50M	28G	13.5	43.5	500m	CHIPS OR DIE	1	-	-
ADH8412S	ADH8412S: Low Noise Amplifier, 0.4 GHz to 11 GHz	Gain Block, LNA, Low Phase Noise	400M	11G	13	33	60m	6-Lead LFCSP (2mm x 2mm)	1	-	6
ADPA1113	2 GHz to 6 GHz, 46 dBm (40 W), GaN Power Amplifier	GaN Power Amp, Power Amp	2G	6G	40.5	48	750m	CER LEADED CHIP CARRIER	1	-	35
ADPA9007	DC to 28 GHz, GaAs, pHEMT, 2 W Power Amplifier	Power Amp	100k	28G	12.5	45	500m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	-	16
ADL7078	High Survivability, Low Noise Amplifier, 1 GHz to 20 GHz	LNA, LNA High Survivability	1G	20G	13	28	175m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	4.75	5.25
HMC8414	Low Noise Amplifier with Bypass Switch 0.1 GHz to 10 GHz	LNA, LNA with Bypass Switch	100M	10G	16	33.5	90m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	6

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADH463S	Aerospace GaAs, Low Noise AGC Amplifier 2 to 20 GHz, LH250 Package	LNA, Wideband Distributed Amps	2G	20G	14	27	60m	12-Lead LCC (5.08mm x 5.08mm),CHIPS OR DIE	1	-	5
ADL8102	GaAs, pHEMT, MMIC, Low Noise Amplifier, 1 GHz to 22 GHz	LNA	1G	22G	27	24.5	110m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5.5
ADL8100	GaAs, pHEMT, MMIC, Low Noise Amplifier, 0.01 GHz to 20 GHz	LNA	10M	20G	19	35	220m	8-lead LFCSP 2 mm x 2 mm x 0.85	1	3	6
ADL8141ACPZN	GaAs, pHEMT, MMIC, Low Noise Amplifier, 14 GHz to 24 GHz	LNA	14G	24G	28.5	18	25m	8-lead LFCSP 2 mm x 2 mm x 0.85,LFCSP:LEADFRM CHIP SCALE	1	1.5	3.5
ADL8141ACPZN-CSL	GaAs, pHEMT, MMIC, Low Noise Amplifier, 14 GHz to 24 GHz	LNA	14G	24G	28.5	18	25m	8-lead LFCSP 2 mm x 2 mm x 0.85,LFCSP:LEADFRM CHIP SCALE	1	1.5	3.5
ADL8112	10 MHz to 26.5 GHz Amplifier with Bypass Switches	LNA with Bypass Switch	10M	26.5G	13.5	22.5	90m	28-Terminal Land Grid Array [LGA]	1	7.5	9.5
ADPA1122	43 dBm, 20 W, GaN Power Amplifier, 8.2 GHz to 11.8 GHz	GaN Power Amp, Power Amp	8.2G	11.8G	31	-	200m	18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	-	-
ADRF5534	3.1 GHz to 4.2 GHz, Receiver Front End	Rx Front End, SPDT Switch	3.1G	4.2G	-	-	-	24-lead LFCSP (5 mm x 3 mm x 0.95 mm)	1	-	-
ADH8411S	0.01 GHz to 10 GHz Low Noise Amplifier	LNA, Low Phase Noise	10M	10G	15	34	55m	6-Lead LFCSP (2mm x 2mm)	-	-	-
ADL8142-2C-CSL	GaAs, pHEMT, MMIC, Low Noise Amplifier, 23 GHz to 31 GHz	LNA	23G	31G	26.5	20	25m	CHIPS OR DIE	1	1.5	3.5
ADL8142-2CHIP	GaAs, pHEMT, MMIC, Low Noise Amplifier, 23 GHz to 31 GHz	LNA	23G	31G	26.5	20	25m	CHIPS OR DIE	1	1.5	3.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADPA7009-2	20 GHz to 54 GHz, GaAs, pHEMT, MMIC, 29 dBm (0.5 W) Power Amplifier	Power Amp, Wideband Distributed Amps	20G	54G	17	34.5	850m	24-terminal LGA_CAV (5 mm x 5 mm x 1.60 mm)	1	3	-
ADL8106ACEZ	GaAs, pHEMT, Low Noise Amplifier, 20 GHz to 54 GHz	Driver Amp, LNA, Wideband Distributed Amps	18G	54G	21.5	21.5	120m	CHIPS OR DIE,24-terminal LGA_CAV (5 mm x 5 mm x 1.60 mm)	1	2	3.5
ADL8106CHIPS	GaAs, pHEMT, Low Noise Amplifier, 20 GHz to 54 GHz	Driver Amp, LNA, Wideband Distributed Amps	20G	54G	21.5	21.5	120m	CHIPS OR DIE,24-terminal LGA_CAV (5 mm x 5 mm x 1.60 mm)	1	2.5	3.5
ADL8105	GaAs, pHEMT, MMIC, Low Noise Amplifier, 5 GHz to 20 GHz	Driver Amp, Gain Block, LNA	5G	20G	27	30.5	90m	8-lead LFCSP 2 mm x 2 mm x 0.85	1	3	5.5
ADL8142S	GaAs, pHEMT, MMIC, Low Noise Amplifier, 23 GHz to 31 GHz	LNA	23G	31G	27	29	25m	8-lead LFCSP 2 mm x 2 mm x 0.85	1	1.5	3.5
ADL8121	GaAs, pHEMT, MMIC, Low Noise Amplifier, 0.025 GHz to 12 GHz	Gain Block, LNA, LNA High Survivability	25M	12G	16.5	36	95m	6-Lead LFCSP (2mm x 2mm)	1	-	-
ADL8142	GaAs, pHEMT, MMIC, Low Noise Amplifier, 23 GHz to 31 GHz	LNA	23G	31G	27	21.5	25m	8-lead LFCSP 2 mm x 2 mm x 0.85	1	1.5	3.5
ADPA1106	46 dBm (40 W), 2.7 GHz to 3.5 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	2.7G	3.5G	34.5	-	300m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	-	-
ADL8107	GaAs, pHEMT, MMIC, Low Noise Amplifier, 6 GHz to 18 GHz	Driver Amp, LNA	6G	18G	24	29	90m	8-lead LFCSP 2 mm x 2 mm x 0.85	1	3	5.5
ADPA7005-Die	18 GHz to 44 GHz, GaAs, pHEMT, 32 dBm (>1 W), MMIC Power Amplifier	Power Amp, Wideband Distributed Amps	20G	44G	17	41	1.2	CHIPS OR DIE,18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADPA7005AEHZ	18 GHz to 44 GHz, GaAs, pHEMT, 32 dBm (>1 W), MMIC Power Amplifier	Power Amp, Wideband Distributed Amps	18G	44G	15.5	40	1.4	CHIPS OR DIE, 18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	5
HMC8413LP2FE	Low Noise Amplifier, 0.01 GHz to 9 GHz	Gain Block, LNA	10M	9G	19.5	35	95m	6-Lead LFCSP (2mm x 2mm)	1	2	6
HMC8413LP2FE-CSL	Low Noise Amplifier, 0.01 GHz to 9 GHz	Gain Block, LNA	10M	9G	19.5	35	95m	6-Lead LFCSP (2mm x 2mm)	1	2	6
ADRF5515A	Dual-Channel, 3.3 GHz to 4.0 GHz, 20 W Receiver Front End	Massive MIMO Receiver Front End	3.3G	4G	-	-	-	40-Lead LFCSP (6mm x 6mm w/ EP)	-	-	-
ADPA7008-Die	20 GHz to 54 GHz, GaAs, pHEMT, MMIC, 31 dBm (1 W) Power Amplifier	Power Amp, Wideband Distributed Amps	20G	54G	18	38	1.5	CHIPS OR DIE, 18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	5
ADPA7008AEHZ	20 GHz to 54 GHz, GaAs, pHEMT, MMIC, 31 dBm (1 W) Power Amplifier	Power Amp, Wideband Distributed Amps	20G	54G	17.5	37	1.5	CHIPS OR DIE, 18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	-
ADPA1107	45.0 dBm (35 W), 4.8 GHz to 6.0 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	4.8G	6G	30.5	-	350m	40-Lead LFCSP (6mm x 6mm w/ EP)	1	24	32
ADRF5519	Dual-Channel, 2.3 GHz to 2.8 GHz, 20 W Receiver Front End	Massive MIMO Receiver Front End	2.3G	2.8G	35	32	110m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25
ADPA7009-Die	20 GHz to 54 GHz, GaAs, pHEMT, MMIC, 29 dBm (0.5 W) Power Amplifier	Power Amp, Wideband Distributed Amps	20G	54G	19.5	35	750m	CHIPS OR DIE	1	3	5
ADL9005	Wideband, Low Noise Amplifier, Single Positive Supply, 0.01 GHz to 26.5 GHz	LNA, Wideband Distributed Amps	10M	26.5G	18.5	25	80m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	4.5	8.5
ADPA7004-Die	40 GHz to 80 GHz, GaAs, pHEMT, MMIC, Wideband Power Amplifier	Power Amp, Wideband Distributed Amps	40G	80G	18.5	31	550	CHIPS OR DIE	1	3	4

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADL5580	Fully Differential, 10 GHz ADC Driver with 10 dB Gain	Differential Amplifier	0	10G	10	43.6	276m	20-Terminal LGA (4mm x 4mm x 0.81mm)	1	4.75	5.25
ADRF5515	Dual-Channel, 3.3 GHz to 4.0 GHz, 20 W Receiver Front End	Massive MIMO Receiver Front End	3.4G	3.8G	33	32	36m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25
ADPA1105	46 dBm (40 W), 0.9 GHz to 1.6 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	900M	1.6G	34.5	-	400m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	-	-
ADL8104	Wideband, High Linearity, Low Noise Amplifier, 0.4 GHz to 7.5 GHz	Gain Block, LNA	400M	7.5G	15	32	150m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5.5
ADL9006-Die	2 GHz to 28 GHz, GaAs, pHEMT, MMIC Low Noise Amplifier	LNA, Wideband Distributed Amps	2G	28G	15.5	21	55	CHIPS OR DIE,32-Lead LFCSP (5mm x 5mm w/ EP)	1	4	7
ADL9006ACGZN	2 GHz to 28 GHz, GaAs, pHEMT, MMIC Low Noise Amplifier	LNA, Wideband Distributed Amps	2G	28G	15.5	23	53m	CHIPS OR DIE,32-Lead LFCSP (5mm x 5mm w/ EP)	1	4	7
ADL8150-Die	GaAs, HBT, MMIC, Low Phase Noise Amplifier, 6 GHz to 14 GHz	Driver Amp, Low Phase Noise	6G	14G	13	31.5	76m	CHIPS OR DIE,6-Lead LFCSP (2mm x 2mm)	1	3	6
ADL8150ACPZN	GaAs, HBT, MMIC, Low Phase Noise Amplifier, 6 GHz to 14 GHz	Driver Amp, Low Phase Noise	6G	14G	12	30	74m	CHIPS OR DIE,6-Lead LFCSP (2mm x 2mm)	1	3	6
HMC8412-Die	Low Noise Amplifier, 0.4 GHz to 11 GHz	Gain Block, LNA, Low Phase Noise	400M	10G	15	32	60m	CHIPS OR DIE,6-Lead LFCSP (2mm x 2mm)	1	3	6
HMC8412LP2FE	Low Noise Amplifier, 0.4 GHz to 11 GHz	Gain Block, LNA, Low Phase Noise	400M	11G	15	33	60m	CHIPS OR DIE,6-Lead LFCSP (2mm x 2mm)	1	-	6
ADPA7006-Die	18 GHz to 44 GHz, GaAs, pHEMT, MMIC, 1/2 W Power Amplifier	Power Amp, Wideband Distributed Amps	18G	44G	22.5	34	800m	CHIPS OR DIE,16-Lead LCC (6mm x 6mm x 1.32mm w/EP)	1	4	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADPA7006AEHZ	18 GHz to 44 GHz, GaAs, pHEMT, MMIC, 1/2 W Power Amplifier	Power Amp, Wideband Distributed Amps	18G	44G	23	37.5	800m	CHIPS OR DIE,16-Lead LCC (6mm x 6mm x 1.32mm w/EP)	1	4	-
ADPA7007-Die	GaAs, pHEMT, MMIC,1 W Power Amplifier, 18 GHz to 44 GHz	Power Amp, Wideband Distributed Amps	18G	44G	21.5	41	1.4	CHIPS OR DIE,18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	5
ADPA7007AEHZ	GaAs, pHEMT, MMIC,1 W Power Amplifier, 18 GHz to 44 GHz	Power Amp, Wideband Distributed Amps	20G	44G	21.5	42.5	1.4	CHIPS OR DIE,18-Lead LCC (7mm x 7mm x 1.32mm w/EP)	1	4	5
ADH519S	Aerospace GaAs PHEMT MMIC Low Noise Amplifier, 17.5 – 31.5 GHz	LNA	17.5G	31.5G	11	17.2	95m	16-Lead LCC (6mm x 6mm x 1.52mm w/EP)	1	2.5	3.5
ADTR1107	6 GHz to 18 GHz, Front-End IC	Phased Array RF Front End, Power Amp	6G	18G	17	30.9	80m	24-Lead LGA (5mm x 5mm x 1.13mm w/ EP)	1	-	-
ADPA7002-Die	GaAs, pHEMT, MMIC,1/2 W, 20 GHz to 44 GHz, Power Amplifier	Power Amp, Wideband Distributed Amps	20G	44G	15	41	600m	CHIPS OR DIE,16-Lead LCC (6mm x 6mm x 1.32mm w/EP)	1	4	5
ADPA7002AEHZ	GaAs, pHEMT, MMIC,1/2 W, 20 GHz to 44 GHz, Power Amplifier	Power Amp, Wideband Distributed Amps	18G	44G	17	38	700m	CHIPS OR DIE,16-Lead LCC (6mm x 6mm x 1.32mm w/EP)	1	4	5
ADPA9002	GaAs, pHEMT, MMIC, Single Positive Supply, DC to 10 GHz Power Amplifier	Low Phase Noise, Power Amp	0	10G	15.5	40.5	385m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	10	15
ADH8410S	Aerospace 0.01 GHz to 10 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA	100M	10G	18	31.5	65m	12-Lead LCC (5.08mm x 5.08mm),CHIPS OR DIE	-	-	-
ADRF5547	Dual-Channel, 3.7 GHz to 5.3 GHz, Receiver Front End	Massive MIMO Receiver Front End	3.7G	5.3G	33	31	36m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADRF5549	Receiver Front End, Dual-Channel, 1.8 GHz to 2.8 GHz	Massive MIMO Receiver Front End	1.8G	2.8G	35	32	35m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25
ADH395S	Aerospace InGaP HBT Gain Block Amplifier, DC – 4 GHz	Gain Block	0	4G	15	28	54m	8-Lead Flatpack	1	4.5	7
HMC1082-Die	5.5 GHz to 18 GHz, GaAs, pHEMT, MMIC, Medium Power Amplifier	Driver Amp	5.5G	18G	24	36	220m	24-Lead QFN (4mm x 4mm w/ EP),CHIPS OR DIE	1	4	5
HMC1082LP4E	5.5 GHz to 18 GHz, GaAs, pHEMT, MMIC, Medium Power Amplifier	Driver Amp	5.5G	18G	22	35	220m	24-Lead QFN (4mm x 4mm w/ EP),CHIPS OR DIE	1	4	5
ADL8111	10 MHz to 8 GHz Bypass Amplifier	Gain Block, LNA with Bypass Switch	10M	8G	12.5	34	70m	28 ld LGA (6mm x 6mm w/4 EP)	1	3	5.5
ADRF5545A	Dual-Channel, 2.4 GHz to 4.2 GHz Receiver Front End	Massive MIMO Receiver Front End	2.4G	4.2G	32	32	36m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25
ADA4945-1 full power	High Speed, $\pm 0.1 \mu\text{V}/^\circ\text{C}$ Offset Drift, Fully Differential ADC Driver	Differential Amplifier, Single-Ended to Differential	0	145M	-	-	4m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	10
ADA4945-1 low power	High Speed, $\pm 0.1 \mu\text{V}/^\circ\text{C}$ Offset Drift, Fully Differential ADC Driver	Differential Amplifier, Single-Ended to Differential	0	145M	-	-	1.4m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	10
HMC8411	Low Noise Amplifier, 0.01 GHz to 10 GHz	Gain Block, LNA, Low Phase Noise	10M	10G	15	34	55m	6-Lead LFCSP (2mm x 2mm)	-	-	-
HMC8411-EP	Low Noise Amplifier, 0.01 GHz to 10 GHz	Gain Block, LNA, Low Phase Noise	10M	10G	15	34	55m	6-Lead LFCSP (2mm x 2mm)	-	-	-

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC1114PM5E	>10 W (42 dBm), 2.7 GHz to 3.8 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	2.7G	3.8G	34.5	44	150m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	24	32
HMC1132PM5E	27 GHz to 32 GHz, GaAs, pHEMT, MMIC Power Amplifier	Driver Amp, Power Amp	27G	32G	24	37	650m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	4	6
HMC8415	40 W (46 dBm), 9 GHz to 10.5 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	9G	10.5G	32.5	-	1	40-Lead LFCSP (6mm x 6mm w/ EP),CHIPS OR DIE	1	28	28
HMC1099PM5E	10 W (40 dBm), 0.01 GHz to 1.1 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	10M	1.1G	18	47.5	100m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	24	32
ADPA7001-Die	50 GHz to 95 GHz, GaAs, pHEMT, MMIC, Wideband Power Amplifier	Power Amp, Wideband Distributed Amps	50G	95G	14.5	25.5	350m	CHIPS OR DIE	1	1.5	4
HMC8500PM5E	10 W (40 dBm), 0.01 GHz to 2.8 GHz, GaN Power Amplifier	GaN Power Amp, Power Amp	10M	2.8G	15	47	100m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	24	32
ADL5569	6.5 GHz, Ultrahigh Dynamic Range, Differential Amplifier	Differential Amplifier	0	6.5G	20	41	86m	16-Lead LFCSP (2.5mm x 3mm x 0.55mm w/ EP)	2	4.75	5.25
HMC637BPM5E	GaAs, pHEMT, MMIC, Single Positive Supply, DC to 7.5 GHz, 1 W Power Amplifier	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	7.5G	15.5	39	345m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	8	13
HMC1040-Die	20 GHz to 44 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA, Wideband Distributed Amps	20G	44G	21	25.5	65m	CHIPS OR DIE	1	2	3.5
ADMV7710	71 GHz to 76 GHz, 1 Watt E-Band Power Amplifier With Power Detector	Power Amp	71G	76G	24	34	800m	CHIPS OR DIE	1	4	4.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADMV7810	81 GHz to 86 GHz, 1 W E-Band Power Amplifier with Power Detector	Power Amp	81G	86G	20	33	800m	CHIPS OR DIE	1	4	4.5
HMC907APM5E	GaAs pHEMT MMIC Power Amplifier 0.2 - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	200M	22G	13	40	350m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	8	11
MAX2248	1.9GHz Power Amplifier	Power Amp	1.88G	1.93G	-	-	105m	EVALUATION BOARDS,16-LFCSP-3X3X0.75	-	2.7	5.5
HMC797APM5E	GaAs pHEMT MMIC 1 Watt Power Amplifier, DC - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	22G	15	41	400m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	8	11
HMC994APM5E	GaAs pHEMT MMIC Power Amplifier, DC - 28 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	28G	15	38	250m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	8	11
MAX2679	GPS/GNSS Ultra-Low Current Low-Noise Amplifiers	LNA	1.176G	1.575G	19	-	1m	EVALUATION BOARDS,4-WLCSP-N/A	1	1.08	1.98
MAX2679B	GPS/GNSS Ultra-Low Current Low-Noise Amplifiers	LNA	1.176G	1.575G	16.5	-	600μ	EVALUATION BOARDS,4-WLCSP-N/A	1	1.08	1.98
HMC8205BCHIPS	0.3 or 0.4 GHz to 6 GHz, 35 W, GaN Power Amplifier	GaN Power Amp, Power Amp	400M	6G	26.5	-	1.3m	CHIPS OR DIE,10 ld LDCC (11.43x17.32mm)	1	28	55
HMC8205BF	0.3 or 0.4 GHz to 6 GHz, 35 W, GaN Power Amplifier	GaN Power Amp, Power Amp	300M	6G	28	-	1.3	CHIPS OR DIE,10 ld LDCC (11.43x17.32mm)	1	28	55
ADL7003	50 GHz to 95 GHz, GaAs, pHEMT, MMIC, Wideband Low Noise Amplifier	LNA, Wideband Distributed Amps	50G	95G	14	21	120m	CHIPS OR DIE	1	2	4

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC906A-DIE	GaAs pHEMT MMIC 2 Watt Power Amplifier, 27.3 - 33.5 GHz	Power Amp	27.3G	33.5G	26.5	43	1200m	CHIPS OR DIE	1	5	6.5
HMC8325	71 GHz to 86 GHz, E-Band Low Noise Amplifier	LNA	71G	86G	21	22	50m	CHIPS OR DIE	1	3	4.5
LTC6432A-15	100kHz to 1.4GHz Differential ADC Driver/IF Amplifier	Differential Amplifier, Gain Block	100k	1.4G	15	54.5	166m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6432B-15	100kHz to 1.4GHz Differential ADC Driver/IF Amplifier	Differential Amplifier, Gain Block	100k	1.4G	15	51	166m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
MAX2678	GPS/GNSS Front-End Amplifier	LNA	1.575G	1.575G	34.8	5	25m	EVALUATION BOARDS,10-LFCSP-3X3X0.75	1	3	5.25
LTC6419	Dual 10GHz GBW, 1.1nV/√Hz Differential Amplifier/ADC Driver	Differential Amplifier	0	1.4G	-	-	52m	20-Lead LQFN (4mm x 3mm x 0.75mm w/ EP)	2	2.7	5.5
HMC7885	2 GHz to 6 GHz, 45 dBm Power Amplifier	GaN Power Amp, Power Amp	2G	6G	21	53	2.2	8-Lead Multichip Module Hermetic Ceramic/Metal Package (0.98 in x mm x 1.346 in x 0.154 in)	1	27.5	28.5
HMC7950	2 GHz to 28 GHz, GaAs pHEMT MMIC Low Noise Amplifier	LNA, Low Phase Noise, Wideband Distributed Amps	2G	28G	15	26	64m	16-Lead LCC (6mm x 6mm w/EP)	1	3	7
HMC392ALC4	GaAs MMIC Low Noise Amplifier, 3.5 - 8.0 GHz	LNA	3.5G	8G	17	34.5	61m	24-Lead LCC (4 x 4mm)	1	2	5.5
HMC5805A	GaAs pHEMT MMIC 0.25 Watt Power Amplifier, DC - 40 GHz	Driver Amp, Low Phase Noise, Power Amp, Wideband Distributed Amps	0	40G	11.5	29	175m	16-Lead LCC (6mm x 6mm x 1.32mm w/EP)	1	10	12

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC8410-Die	0.01 GHz to 10 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier	Gain Block, LNA, Low Phase Noise	10M	10G	19.5	31.5	65m	CHIPS OR DIE	1	2	6
HMC1114LP5DE	10 W, GaN Power Amplifier, 2.7 GHz to 3.8 GHz	GaN Power Amp, Power Amp	2.7G	3.8G	35	44	150m	32-Lead LFCSP_CAV (5mm x 5mm w/ EP)	1	24	32
HMC717A	GaAs pHEMT MMIC Low Noise Amplifier, 4.8 to 6.0 GHz	LNA	4.8G	6G	14.5	29.5	73m	16-Lead QFN (3mm x 3mm w/ EP)	1	3	5.5
HMC7229-Die	33 GHz to 40 GHz, GaAs, pHEMT, MMIC, 1 W Power Amplifier with Power Detector	Power Amp	33G	40G	24.5	39	1.2	CHIPS OR DIE	1	5	6
HMC8401-Die	DC to 28 GHz, GaAs pHEMT MMIC Low Noise Amplifier	LNA, Wideband Distributed Amps	10M	28G	14.5	26	60m	CHIPS OR DIE	1	6.5	8.5
HMC8402-Die	2 GHz to 30 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA, Wideband Distributed Amps	2G	30G	13.5	24	68m	CHIPS OR DIE	1	5	8
HMC8410LP2FE	0.01 GHz to 10 GHz, GaAs, pHEMT, MMIC, Low Noise Amplifier	Gain Block, LNA, Low Phase Noise	10M	10G	19.5	31.5	65m	6-Lead LFCSP (2mm x 2mm x 0.85mm w/ EP)	1	2	-
HMC1121	4 W, GaAs, pHEMT, MMIC Power Amplifier, 5.5 GHz to 8.5 GHz	Power Amp	5.5G	8.5G	27	43	2200m	40-Lead QFN (6mm x 6mm w/ EP)	1	5	7.5
ADL5567	4.3 GHz, Ultrahigh Dynamic Range, Dual Differential Amplifier	Differential Amplifier	0	4.3G	20	43.5	138m	24-Lead LFCSP (4mm x 4mm w/ EP)	2	3.15	5.25
HMC952A	GaAs pHEMT MMIC 2 Watt Power Amplifier with Power Detector 8 - 14 GHz	Power Amp	8G	14G	30.5	43	1400m	24 Id LFCSP (5x5mm w/2.35mm EP)	1	-	-

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
AD7293	12-Bit Power Amplifier Current Controller with ADC, DACs, Temperature and Current Sensors	PA Drain Current Controller	-	-	-	-	22m	56-Lead LFCSP (8mm x 8mm w/ EP)	4	-4.5	5.5
LTC6433A-15	Low Frequency to 1.4GHz 50Ω Gain Block IF Amplifier	Gain Block	100k	1.4G	15.9	52	95m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.5
LTC6433B-15	Low Frequency to 1.4GHz 50Ω Gain Block IF Amplifier	Gain Block	100k	1.4G	15.9	49	95m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.5
ADL5721	5.9 GHz to 8.5 GHz, Low Noise Amplifier	LNA	5.9G	8.5G	25.9	4	86.5m	8-Lead LFCSP (2mm x 2mm w/ EP)	2	1.65	3.5
ADL5723	10.1 GHz to 11.7 GHz, Low Noise Amplifier	LNA	10.1G	11.7G	24.5	2.2	109.1m	8-Lead LFCSP (2mm x 2mm w/ EP)	2	1.65	3.5
ADL5724	12.7 GHz to 15.4 GHz, Low Noise Amplifier	LNA	12.7G	15.4G	26.4	2	109.7m	8-Lead LFCSP (2mm x 2mm w/ EP)	2	1.65	3.5
ADL5725	17.7 GHz to 19.7 GHz, Low Noise Amplifier	LNA	17.7G	19.7G	27.8	-1.5	108m	8-Lead LFCSP (2mm x 2mm w/ EP)	2	1.65	3.5
ADL5726	21.2 GHz to 23.6 GHz, Low Noise Amplifier	LNA	21.2G	23.6G	24.7	1	92.4m	8-Lead LFCSP (2mm x 2mm w/ EP)	2	1.65	3.5
ADL5205	Dual, 35 dB Range, 1 dB Step Size DGA	Differential Amplifier	0	1.7G	-	46	175m	40-Lead LFCSP (6mm x 6mm w/ EP)	2	4.75	5.25
HMC7543	71 GHz to 76 GHz, E-Band Power Amplifier With Power Detector	Driver Amp, Power Amp	71G	76G	21.5	30	450m	CHIPS OR DIE	1	4	4.5
HMC8142	81 GHz to 86 GHz, E-Band Power Amplifier with Power Detector	Driver Amp, Power Amp	81G	86G	21	29	450m	CHIPS OR DIE	1	4	4.5
HMC8400-Die	2 GHz to 30 GHz, GaAs pHEMT MMIC Low Noise Amplifier	LNA, Wideband Distributed Amps	2G	30G	14	25	67m	CHIPS OR DIE	1	3	7

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC1099LP5DE	10 Watt GaN Power Amplifier, 0.01 - 1.1 GHz	GaN Power Amp, Power Amp	10M	1.1G	19	49	100m	32-Lead LFCSP_CAV (5mm x 5mm w/ EP)	1	24	32
HMC930A-Die	GaAs, pHEMT, MMIC, 0.25 W Power Amplifier, DC to 40 GHz	Driver Amp, Low Phase Noise, Power Amp, Wideband Distributed Amps	0	40G	13	33.5	175m	CHIPS OR DIE	1	-	-
HMC1144-Die	35 GHz to 70 GHz, GaAs, pHEMT, MMIC, Medium Power Amplifier	Power Amp, Wideband Distributed Amps	35G	70G	19	28	320m	CHIPS OR DIE	1	4	4.5
HMC460-Die	GaAs PHEMT MMIC Low Noise Amplifier, DC - 20 GHz	LNA, Low Phase Noise, Wideband Distributed Amps	0G	20G	14	28	75m	CHIPS OR DIE	1	-	-
LTC6363	Precision, Low Power Differential Amplifier/ADC Driver Family	Differential Amplifier	0	35M	-	-	1.7m	16-Lead LFCSP (3mm x 3mm),8-Lead MSOP,8-Lead DFN (2mm x 3mm w/ EP)	1	2.8	11
LTC6363-0.5	Precision, Low Power Differential Amplifier/ADC Driver Family	Differential Amplifier	0	60M	-6	-	1.7m	16-Lead LFCSP (3mm x 3mm),8-Lead MSOP,8-Lead DFN (2mm x 3mm w/ EP)	1	2.8	11
LTC6363-1	Precision, Low Power Differential Amplifier/ADC Driver Family	Differential Amplifier	0	35M	0	-	1.7m	16-Lead LFCSP (3mm x 3mm),8-Lead MSOP,8-Lead DFN (2mm x 3mm w/ EP)	1	2.8	11
LTC6363-2	Precision, Low Power Differential Amplifier/ADC Driver Family	Differential Amplifier	0	21M	6	-	1.7m	16-Lead LFCSP (3mm x 3mm),8-Lead MSOP,8-Lead DFN (2mm x 3mm w/ EP)	1	2.8	11
HMC1131	GaAs, pHEMT, MMIC, Medium Power Amplifier, 24 GHz to 35 GHz	Driver Amp	24G	35G	20	35	225m	24-Lead LCC (4 x 4mm)	1	5	5.5
ADA8282	Radar Receive Path AFE: 4-Channel LNA and PGA	LNA, PGA	0	42.3M	18	-	19.6m	32-Lead LFCSP (5mm x 5mm x 0.75mm w/ EP)	4	3	3.6
ADA4961	Low Distortion, 3.2 GHz, RF DGA	DGA, Differential Amplifier	0	3.2G	15	50	150m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	3.3	5.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LTC6430A-20	High Linearity Differential RF/IF Amplifier/ADC Driver	Differential Amplifier, Gain Block	20M	2G	20	51	170m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6430B-20	High Linearity Differential RF/IF Amplifier/ADC Driver	Differential Amplifier, Gain Block	20M	2G	20	47	170m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6431A-20	20dB Gain Block, 50Ω IF Amplifier	Gain Block	20M	1.4G	20.8	48.8	93m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6431B-20	20dB Gain Block, 50Ω IF Amplifier	Gain Block	20M	1.4G	20.8	47.8	93m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
ADL5544	30 MHz to 6 GHz RF/IF Gain Block	Gain Block, Low Phase Noise	30M	6G	17.4	34.9	55m	3-Lead SOT-89	1	4.75	5.25
ADL5545	30 MHz to 6 GHz RF/IF Gain Block	Gain Block, Low Phase Noise	30M	6G	24.1	36.4	56m	3-Lead SOT-89	1	4.75	5.25
MAX2181A	FM Automotive Low-Noise Amplifier	LNA	76M	162.5M	8.5	-	56m	EVALUATION BOARDS,16-LFCSP-3X3X0.75	1	4.75	5.25
ADL5611	30 MHz to 6 GHz RF/IF Gain Block	Gain Block, Low Phase Noise	30M	6G	22.2	40	91m	3-Lead SOT-89	1	4.75	5.25
MAX2181	FM Automotive Low-Noise Amplifier	LNA	76M	162.5M	6	-	56m	EVALUATION BOARDS,16-LFCSP-3X3X0.75	1	8	15
MAX2180A	AM/FM Car Antenna Low-Noise Amplifier	LNA	148k	162.5M	6	-	75m	EVALUATION BOARDS,24-LFCSP-4X4X0.75	1	6	24
LTC6430A-15	High Linearity Differential RF/IF Amplifier/ADC Driver	Differential Amplifier, Gain Block	20M	2G	15	50	160m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6430B-15	High Linearity Differential RF/IF Amplifier/ADC Driver	Differential Amplifier, Gain Block	20M	2G	15	47	160m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADL5566	4.5 GHz Ultrahigh Dynamic Range, Dual Differential Amplifier	Differential Amplifier	0	4.5G	16	51	160m	24-Lead LFCSP (4mm x 5mm w/ EP)	2	2.8	5.2
LTC6431A-15	50Ω Gain Block IF Amplifier	Gain Block	20M	1.7G	15.5	47	85.1m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6431B-15	50Ω Gain Block IF Amplifier	Gain Block	20M	1.7G	15.5	45.5	85.1m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
LTC6417	1.6GHz Low Noise High Linearity Differential Buffer/16-Bit ADC Driver with Fast Clamp	Differential Amplifier	0	1.6G	0	43	123m	20-Lead QFN (3mm x 4mm x 0.75mm w/ EP)	1	4.75	5.25
MAX2612	40MHz to 4GHz Linear Broadband Amplifiers	LNA	40M	4G	18.3	35.2	69m	EVALUATION BOARDS,8-LFCSP-2X3X0.75	1	3	525
MAX2613	40MHz to 4GHz Linear Broadband Amplifiers	LNA	40M	4G	18.6	31.2	51.2m	8-LFCSP-2X3X0.75	1	3	525
MAX2614	40MHz to 4GHz Linear Broadband Amplifiers	LNA	40M	4G	18.6	29.7	40.6m	EVALUATION BOARDS,8-LFCSP-2X3X0.75	1	3	525
MAX2615	40MHz to 4GHz Linear Broadband Amplifiers	LNA	40M	4G	18.5	37.6	81.5m	EVALUATION BOARDS,8-LFCSP-2X3X0.75	1	3	525
MAX2616	40MHz to 4GHz Linear Broadband Amplifiers	LNA	40M	4G	18.4	37.2	80.6m	EVALUATION BOARDS,8-LFCSP-2X3X0.75	1	3	525
MAX2686L	GPS/GNSS Low-Noise Amplifiers with Integrated LDO	LNA	1.575G	1.61G	19	15	5m	EVALUATION BOARDS,4-WLCSP-N/A	1	1.6	4.2
MAX2693L	GPS/GNSS Low-Noise Amplifiers with Integrated LDO	LNA	1.575G	1.61G	18.4	4.1	1.8m	EVALUATION BOARDS,4-WLCSP-N/A	1	1.6	4.2
ADL5324	400 MHz TO 4000 MHz ½ Watt RF Driver Amplifier	Driver Amp	400M	4G	14	45.5	60m	3-Lead SOT-89	1	3.3	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LTC6362	Precision, Low Power Rail-to-Rail Input/Output Differential Op Amp/SAR ADC Driver	Differential Amplifier	0	34M	0	-	900μ	8-Lead MSOP,8-Lead DFN (3mm x 3mm x 0.75mm w/ EP)	1	2.8	5.25
MAX2691	L2 Band GPS Low-Noise Amplifier	LNA	1.15G	1.3G	17.5	14.5	4.3m	EVALUATION BOARDS,4-WLCSP-N/A	1	1.6	3.6
MAX2694	GPS/GNSS Low-Noise Amplifiers	LNA	1.575G	1.61G	11.6	18.45	4.5m	4-WLCSP-N/A	1	1.6	3.6
MAX2692	WLAN/WiMAX Low-Noise Amplifiers	LNA	2.2G	2.9G	18.2	15.2	4m	EVALUATION BOARDS,4-WLCSP-N/A	1	1.6	3.6
AD8476	Low Power, Unity Gain Fully Differential Amplifier & ADC Driver	Differential Amplifier	-	-	-	-	330μ	16-Lead LFCSP (3mm x 3mm w/ EP),8-Lead MSOP	1	3	18
MAX2670	GPS/GNSS Front-End Amplifier	LNA	1.575G	1.575G	34.8	5.8	25m	EVALUATION BOARDS,10-LFCSP-3X3X0.75	1	3	5.5
ADL5565	6 GHz Ultrahigh Dynamic Range Differential Amplifier	Differential Amplifier	0	6G	15.5	53	80m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	2.8	5.2
ADL5605	700 MHz TO 1000 MHz, 1 W RF Driver Amplifier	Driver Amp	700M	1G	23	43.4	307m	16-Lead LFCSP (4mm x 4mm w/ EP)	1	4.75	5.25
ADL5606	1800 MHz TO 2700 MHz, 1 W RF Driver Amplifier	Driver Amp	1.8G	2.7G	24.3	45.5	362m	16-Lead LFCSP (4mm x 4mm w/ EP)	1	4.75	5.25
MAX2674	GPS/GNSS LNAs with Antenna Switch and Bias	LNA	1.575G	1.575G	18	16	4.5m	EVALUATION BOARDS,Wafer-Level Package 3x2 Bump, Full Array	1	1.6	3.6
MAX2676	GPS/GNSS LNAs with Antenna Switch and Bias	LNA	1.575G	1.575G	15	20	4.5m	EVALUATION BOARDS,Wafer-Level Package 3x2 Bump, Full Array	1	1.6	3.6
AD8475	Precision, Selectable Gain, Fully Differential Funnel Amplifier	Differential Amplifier	-	-	-	-	3m	16-Lead LFCSP (3mm x 3mm w/ EP),10-Lead MSOP	1	3	10

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADA4930-1	Ultralow Noise Drivers for Low Voltage ADCs	Differential Amplifier	-	-	-	-	35m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5.25
ADA4930-2	Ultralow Noise Drivers for Low Voltage ADCs	Differential Amplifier	-	-	-	-	70m	24-Lead LFCSP (4mm x 5mm w/ EP)	2	3	5.25
MAX9626	Low-Noise, Low-Distortion, 1.35GHz Fully Differential Amplifiers	Differential Amplifier	0	1.15G	0	-	59m	12-LFCSP-3X3X0.75	1	2.85	5.25
MAX9627	Low-Noise, Low-Distortion, 1.35GHz Fully Differential Amplifiers	Differential Amplifier	0	1.35G	6	-	59m	12-LFCSP-3X3X0.75	1	2.85	5.25
LTC6409	10GHz GBW, 1.1nV/√Hz Differential Amplifier/ADC Driver	Differential Amplifier	-	2G	0	-	52m	10-Lead QFN (3mm x 2mm x 0.75mm)	1	5.25	2.7
MAX2667	GPS/GNSS Ultra-Low-Noise-Figure LNAs	LNA	1.575G	1.61G	19.5	16	4.1m	EVALUATION BOARDS, Wafer-Level Package 3x2 Bump, Full Array	1	1.6	3.3
MAX2686	GPS/GNSS Low-Noise Amplifiers	LNA	1.575G	1.61G	19	16	4.1m	EVALUATION BOARDS, 4-WLCSP-N/A	1	1.6	3.3
MAX2688	GPS/GNSS Low-Noise Amplifiers	LNA	1.575G	1.61G	15.4	19.4	4.1m	4-WLCSP-N/A	1	1.6	3.3
AD8351S	Aerospace Low Distortion Fully Differential RF/IF Amplifier	Differential Amplifier	-	-	-	-	-	20-Lead LCC	1	-	-
ADA4940-1	Ultralow Power, Low Distortion ADC Driver	Differential Amplifier	0	260M	-	-	1.25m	16-Lead LFCSP (3mm x 3mm w/ EP), 8-Lead SOIC	1	3	7
ADA4940-2	Ultralow Power, Low Distortion ADC Driver	Differential Amplifier	0	260M	-	-	1.25m	24-Lead LFCSP (4mm x 4mm w/ EP)	2	3	7
ADA4960-1	5 GHz, Low Distortion ADC Driver/Line Driver	Differential Amplifier	-	-	-	-	60m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	4.75	5.25

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADL5535	20 MHz TO 1.0 GHz IF Gain Block	Gain Block	20M	1G	16	45.5	97m	3-Lead SOT-89	1	4.5	5.5
ADL5536	20 MHz TO 1.0 GHz IF Gain Block	Gain Block	20M	1G	20	45	105m	3-Lead SOT-89	1	4.5	5.5
MAX2657	GPS/GNSS Low-Noise Amplifiers	LNA	1.563G	1.62G	19.5	16	4.1m	EVALUATION BOARDS, Wafer-Level Package 3x2 Bump, Full Array	1	1.6	3.3
MAX2658	GPS/GNSS Low-Noise Amplifiers	LNA	1.563G	1.62G	17.7	22.2	7.7m	EVALUATION BOARDS, Wafer-Level Package 3x2 Bump, Full Array	1	1.6	3.3
LTC6412	800MHz, 31dB Range Analog-Controlled VGA	Differential Amplifier	-	800M	-14	35	110m	24-Lead QFN (4mm x 4mm x 0.75mm w/ EP)	1	3	3.6
ADL5601	50 MHz TO 4.0 GHz RF/IF Gain Block	Gain Block	50M	4G	15	43	83m	3-Lead SOT-89	1	4.5	5.5
ADL5604	700 MHz TO 2700 MHz 1 W RF Driver Amplifier	Driver Amp	700M	2.7G	12.2	42.2	318m	16-Lead LFCSP (4mm x 4mm w/ EP)	1	4.75	5.25
ADL5602	50 MHz TO 4.0 GHz RF/IF Gain Block	Gain Block, Low Phase Noise	50M	4G	19.3	42	89m	3-Lead SOT-89	1	4.5	5.5
MAX2634	315MHz/433MHz Low-Noise Amplifier for Automotive RKE	LNA	100M	1G	15.5	-0.5	2.5m	EVALUATION BOARDS, Single Chip Package	1	2.2	5.5
ADL5561	2.9 GHz Ultralow Distortion RF/IF Differential Amplifier	Differential Amplifier	0	2.9G	15.5	49	40m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	3.6
ADL5562	3.3 GHz Ultralow Distortion RF/IF Differential Amplifier	Differential Amplifier	0	3.3G	15.5	47	80m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	3.6
MAX11008	Dual RF LDMOS Bias Controller with Nonvolatile Memory	LDMOS Bias Controller	-	-	-	-	-	Thin Quad Flatpack, No Leads	-	4.75	5.25

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADA4950-1	Low Power Selectable Gain Differential ADC Driver, G = 1, 2, 3	Differential Amplifier	-	-	-	-	9.5m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	11
ADA4950-2	Low Power Selectable Gain Differential ADC Driver, G = 1, 2, 3	Differential Amplifier	-	-	-	-	19m	24-Lead LFCSP (4mm x 4mm w/ EP)	2	3	11
LTC6416	2GHz Low Noise Differential 16-Bit ADC Buffer	Differential Amplifier	-	2G	0	40	42m	10-Lead DFN (3mm x 2mm w/ EP)	1	2.7	3.9
ADA4927-1	Ultralow Distortion Current Feedback Differential ADC Driver	Differential Amplifier	-	-	-	-	22.1m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	4.5	11
ADA4927-2	Ultralow Distortion Current Feedback Differential ADC Driver	Differential Amplifier	-	-	-	-	44.2m	24-Lead LFCSP (4mm x 4mm w/ EP)	2	4.5	11
ADA4932-1	Low Power Differential ADC Driver	Differential Amplifier	-	-	-	-	9.6m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	11
ADA4932-2	Low Power Differential ADC Driver	Differential Amplifier	-	-	-	-	19.2m	24-Lead LFCSP (4mm x 5mm w/ EP)	2	3	11
ADL5523	400 MHz TO 4000 MHz Low Noise Amplifier	LNA	400M	4G	21.5	34	60m	8-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5
LT6604-10	Dual Very Low Noise, Differential Amplifier and 10MHz Lowpass Filter	Differential Amplifier	-	10M	0	-	35m	32-Lead QFN (4mm x 7mm x 0.75mm w/ EP)	2	2.7	5.25
LT6604-15	Dual Very Low Noise, Differential Amplifier and 15MHz Lowpass Filter	Differential Amplifier	-	15M	0	-	35m	32-Lead QFN (4mm x 7mm x 0.75mm w/ EP)	2	2.7	5.25
LTC6400-8	2.2GHz Low Noise, Low Distortion Differential ADC Driver for DC-300MHz	Differential Amplifier	-	2.2G	8	-	85m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LT6604-2.5	Dual Very Low Noise, Differential Amplifier and 2.5MHz Lowpass Filter	Differential Amplifier	-	2.5M	0	-	26m	32-Lead QFN (4mm x 7mm x 0.75mm w/ EP)	2	2.7	5.25
LT6604-5	Dual Very Low Noise, Differential Amplifier and 5MHz Lowpass Filter	Differential Amplifier	-	5M	0	-	26m	32-Lead QFN (4mm x 7mm x 0.75mm w/ EP)	2	2.7	5.25
AD8366	DC to 600 MHz, Dual-Digital Variable Gain Amplifiers	Differential Amplifier	-	-	-	45	180m	32-Lead LFCSP (5mm x 5mm x 0.75mm w/ EP)	2	4.75	5.25
LTC6405	2.7GHz, 5V, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	Differential Amplifier	-	800M	0	-	18m	8-Lead MSOP w/ EP,16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4.5	5.25
LTC6400-14	2.4GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	Differential Amplifier	-	2.4G	14	-	85m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
ADA4939-1	Ultralow Distortion Differential ADC Driver	Differential Amplifier	-	-	-	-	37.7m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5.25
ADA4939-2	Ultralow Distortion Differential ADC Driver	Differential Amplifier	-	-	-	-	75.4m	24-Lead LFCSP (4mm x 4mm x 0.75mm w/ EP)	2	3	5.25
AD8138S	Aerospace 320 MHz Low Distortion Differential Amplifier	Differential Amplifier	-	-	-	-	20m	10-Lead FlatPack	1	-	-
LTC6401-14	2GHz Low Noise, Low Distortion Differential ADC Driver for DC-140MHz	Differential Amplifier	-	2G	14	-	45m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
LTC6420-20	Dual Matched 1.8GHz Differential Amplifiers/ADC Drivers	Differential Amplifier	-	1.8G	20	-	80m	20-Lead QFN (3mm x 4mm x 0.75mm w/ EP)	2	2.85	3.5
LTC6421-20	Dual Matched 1.3GHz Differential Amplifiers/ADC Drivers	Differential Amplifier	-	1.3G	20	-	40m	20-Lead QFN (3mm x 4mm x 0.75mm w/ EP)	2	2.85	3.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADA4937-1	Ultralow Distortion Differential ADC Driver (Single)	Differential Amplifier	-	-	-	-	39.5m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3.3	5
ADA4937-2	Ultralow Distortion Differential ADC Driver (Dual)	Differential Amplifier	-	-	-	-	80m	24-Lead LFCSP (4mm x 4mm x 0.75mm w/ EP)	2	3	5.25
AD8372	41 dB Range, 1 dB Step Size, Programmable Dual VGA	Differential Amplifier	-	-	-	35	212m	32-Lead LFCSP (5mm x 5mm w/ EP)	2	4.5	5.5
AD8139	Low Noise, Rail-to-Rail, Differential ADC Driver	Differential Amplifier	-	-	-	-	24.5m	8-Lead LFCSP (3mm x 3mm w/ EP), 8-Lead SOIC w/ EP	1	3	11
ADL5321	2.3 GHz TO 4.0 GHz ¼ Watt RF Driver Amplifier	Driver Amp	2.3G	4G	14	41	37m	3-Lead SOT-89	1	4.5	5.5
LTC6401-8	2.2GHz Low Noise, Low Distortion Differential ADC Driver for DC-140MHz	Differential Amplifier	-	2.2G	8	-	45m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
LTC6403-1	200MHz, Low Noise, Low Power Fully Differential Input/Output Amplifier/Driver	Differential Amplifier	-	200M	0	-	10.8m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.7	5.25
LTC6400-26	1.9GHz Low Noise, Low Distortion Differential ADC Driver for DC-300MHz	Differential Amplifier	-	1.9G	26	-	85m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
LTC6401-26	1.6GHz Low Noise, Low Distortion Differential ADC Driver for DC-140MHz	Differential Amplifier	-	1.6G	26	-	45m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
LTC6404-1	600MHz, Low Noise, High Precision Fully Differential Input/Output Amplifier/Driver	Differential Amplifier	-	600M	0	-	27.2m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.7	5.25

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LTC6404-2	600MHz, Low Noise, High Precision Fully Differential Input/Output Amplifier/Driver	Differential Amplifier	-	600M	0	-	29.7m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.7	5.25
LTC6404-4	600MHz, Low Noise, High Precision Fully Differential Input/Output Amplifier/Driver	Differential Amplifier	-	530M	0	-	30m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.7	5.25
ADL5531	20 MHz TO 500 MHz IF Gain Block	Gain Block	20M	500M	20.9	41	100m	8-Lead LFCSP (3mm x 3mm w/ EP)	1	4.75	5.25
ADA4938-1	Ultralow Distortion Differential ADC Driver (Single)	Differential Amplifier	-	-	-	-	40m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	4.5	11
ADA4938-2	Ultralow Distortion Differential ADC Driver (Dual)	Differential Amplifier	-	-	-	-	80m	24-Lead LFCSP (4mm x 4mm x 0.75mm w/ EP)	2	4.5	11
AD8368	800 MHz, Linear-in-dB VGA with AGC Detector	Differential Amplifier, VGA	-	-	-	34	60m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	4.5	5.5
ADL5542	20 MHz to 6 GHz RF/IF Gain Block, Fixed Gain of 20 dB	Gain Block	20M	6G	18.7	39	93m	8-Lead LFCSP (3mm x 3mm w/ EP)	1	4.5	5.5
LTC6410-6	Low Distortion, Low Noise Differential IF Amplifier with Configurable Input Impedance	Differential Amplifier	-	1.4G	6	-	104m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	5.25	2.8
AD8375	Ultralow Distortion IF VGA	Differential Amplifier	-	-	-	50	125m	24-Lead LFCSP (4mm x 4mm x 0.75mm w/ EP)	1	4.5	5.5
AD8376	Ultralow Distortion IF Dual VGA	Differential Amplifier	-	-	-	50	250m	32-Lead LFCSP (5mm x 5mm w/ EP)	2	4.5	5.5
ADL5541	20 MHz to 6 GHz RF/IF Gain Block, Fixed Gain of 15 dB	Gain Block	20M	6G	14.7	39.2	90m	8-Lead LFCSP (3mm x 3mm w/ EP)	1	4.5	5.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LTC6406	3GHz, Low Noise, Rail-to-Rail Input Differential Amplifier/Driver	Differential Amplifier	-	800M	0	-	18m	8-Lead MSOP w/ EP,16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.7	3.5
ADL5320	400 MHz TO 2700 MHz ¼ Watt RF Driver Amplifier	Driver Amp	400M	2.7G	13.2	42	47m	3-Lead SOT-89	1	3.3	5
ADL5534	20 MHz TO 500 MHz IF Amplifier	Gain Block	20M	500M	21	40	98m	16-Lead LFCSP (5mm x 5mm w/ EP)	2	4.75	5.25
ADL5521	400 MHz TO 4000 MHz Low Noise Amplifier	LNA, Low Phase Noise	400M	4G	20.8	37	60m	8-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5
LTC6400-20	1.8GHz Low Noise, Low Distortion Differential ADC Driver for 300MHz IF	Differential Amplifier	-	1.8G	20	-	90m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
LTC6401-20	1.3GHz Low Noise, Low Distortion Differential ADC Driver for 140MHz IF	Differential Amplifier	-	1.3G	20	-	50m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	2.85	3.5
MAX2659	GPS/GNSS Low-Noise Amplifier	LNA	1.45G	1.75G	20.5	15.5	4.1m	Micro Dual Flatpack No Lead	1	1.6	3.3
AD8138	Low Distortion Differential ADC Driver	Differential Amplifier	-	-	-	-	20m	8-Lead SOIC,8-Lead MSOP,CHIPS OR DIE	1	3	5.5
AD8370	750 MHz Digitally Controlled Variable Gain Amplifier	Differential Amplifier, VGA	-	-	-	35	79m	16-Lead TSSOP w/ EP	1	3	5.5
AD8132	Low Cost, High Speed Differential Amplifier	Differential Amplifier	-	-	-	-	12m	8-Lead SOIC,8-Lead MSOP	1	2.8	11
AD8352	2 GHz Ultralow Distortion Differential RF/IF Amplifier	Differential Amplifier	-	-	-	41	37m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	3	5.5
LT6411	650MHz Differential ADC Driver/Dual Selectable Gain Amplifier	Differential Amplifier	-	650M	0	44.5	16m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	2	4.5	12.6

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
ADL5530	DC to 1000 MHz IF Gain Block	Gain Block	10M	1G	16.8	37	110m	8-Lead LFCSP (3mm x 2mm x 0.75mm w/ EP)	1	3	5
AD8353	1 MHz TO 2.7 GHz RF Gain Block	Gain Block	1M	2.7G	20	22.8	42m	8-Lead LFCSP (3mm x 2mm x 0.75mm w/ EP)	1	4.5	5.5
AD8354	1 MHz TO 2.7 GHz RF Gain Block	Gain Block	1M	2.7G	20	19.3	25m	8-Lead LFCSP (3mm x 2mm x 0.75mm w/ EP)	1	3	5
LT6402-12	300MHz Low Distortion, Low Noise Differential Amplifier/ADC Driver (AV = 12dB)	Differential Amplifier	-	300M	12	-	30m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
LT6402-20	300MHz Low Distortion, Low Noise Differential Amplifier/ADC Driver (AV = 20dB)	Differential Amplifier	-	300M	20	-	30m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
LT6402-6	300MHz Low Distortion, Low Noise Differential Amplifier/ADC Driver (AV = 6dB)	Differential Amplifier	-	300M	6	-	30m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
MAX12000	1575MHz GPS Front-End Amplifier	LNA	1.575G	1.575G	34.8	5.8	25m	10-LFCSP-3X3X0.75	1	3	5
AD8351	Low Distortion Differential RF/IF Amplifier	Differential Amplifier	-	-	-	31	28m	16-Lead LFCSP (3mm x 3mm w/ EP), 10-Lead MSOP	1	3	5.5
AD8369	600 MHz, 45 dB Digitally Controlled Variable Gain Amplifier	Differential Amplifier, VGA	-	-	-	19.5	37m	16-Lead TSSOP	1	3	5.5
AD8350	Low Distortion 1.0 GHz Differential Amplifier	Differential Amplifier	-	-	-	28	30m	8-Lead SOIC, 8-Lead MSOP	1	4	11
AD8137	Low Cost, Low Power Differential ADC Driver	Differential Amplifier	-	-	-	-	3.2m	8-Lead LFCSP (3mm x 3mm), 8-Lead SOIC	1	3	11
AD8131	Low-Cost, High Speed Differential Driver	Differential Amplifier	-	-	-	-	11.5m	8-Lead SOIC, 8-Lead MSOP	1	2.7	11

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LT1994	Low Noise, Low Distortion Fully Differential Input/Output Amplifier/Driver	Differential Amplifier	-	70M	0	-	13.3m	8-Lead MSOP,8-Lead DFN (3mm x 3mm x 0.75mm w/ EP)	1	2.375	12.6
LT1993-10	700MHz Low Distortion, Low Noise Differential Amplifier/ADC Driver (AV = 10V/V)	Differential Amplifier	-	700M	20	-	100m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
LT1993-2	800MHz Low Distortion, Low Noise Differential Amplifier ADC Driver (Av = 2V/V)	Differential Amplifier	-	800M	6	-	100m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
LT1993-4	900MHz Low Distortion, Low Noise Differential Amplifier/ADC Driver (AV = 4V/V)	Differential Amplifier	-	900M	12	-	100m	16-Lead QFN (3mm x 3mm x 0.75mm w/ EP)	1	4	5.5
LT5524	Low Distortion IF Amplifier/ADC Driver with Digitally Controlled Gain	Differential Amplifier	-	-	-	34	34m	20-Lead TSSOP w/ EP	1	4.75	5.25
LT5514	Ultralow Distortion IF Amplifier/ADC Driver with Digitally Controlled Gain	Differential Amplifier	-	-	-	41	64m	20-Lead TSSOP w/ EP	1	4.75	5.25
LTC1992	Low Power, Fully Differential Input/Output Amplifier/Driver Family	Differential Amplifier	-	-	0	-	650μ	8-Lead MSOP	1	2.7	11
LTC1992-1	Low Power, Fully Differential Input/Output Amplifier/Driver Family	Differential Amplifier	-	-	0	-	650μ	8-Lead MSOP	1	2.7	11
LTC1992-10	Low Power, Fully Differential Input/Output Amplifier/Driver Family	Differential Amplifier	-	-	20	-	650μ	8-Lead MSOP	1	2.7	11
LTC1992-2	Low Power, Fully Differential Input/Output Amplifier/Driver Family	Differential Amplifier	-	-	6	-	650μ	8-Lead MSOP	1	2.7	11

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
LTC1992-5	Low Power, Fully Differential Input/Output Amplifier/Driver Family	Differential Amplifier	-	-	14	-	650μ	8-Lead MSOP	1	2.7	11
LT6600-10	Very Low Noise, Differential Amplifier and 10MHz Lowpass Filter	Differential Amplifier	-	10M	0	-	39m	8-Lead SOIC (Narrow 0.15 Inch), 12-Lead DFN (4mm x 4mm w/ EP)	1	3	11
LT6600-15	Very Low Noise, Differential Amplifier and 15MHz Lowpass Filter	Differential Amplifier	-	15M	0	-	46m	8-Lead SOIC (Narrow 0.15 Inch)	1	3	11
LT6600-2.5	Very Low Noise, Differential Amplifier and 2.5MHz Lowpass Filter	Differential Amplifier	-	2.5M	0	-	26m	8-Lead SOIC (Narrow 0.15 Inch), 12-Lead DFN (4mm x 4mm w/ EP)	1	3	11
LT6600-20	Very Low Noise, Differential Amplifier and 20MHz Lowpass Filter	Differential Amplifier	-	20M	0	-	46m	8-Lead SOIC (Narrow 0.15 Inch)	1	3	11
LT6600-5	Very Low Noise, Differential Amplifier and 5MHz Lowpass Filter	Differential Amplifier	-	5M	0	-	28m	8-Lead SOIC (Narrow 0.15 Inch)	1	3	11
MAX2371	LNAs with Step Attenuator and VGA	LNA	100M	1G	15	13.5	2.5m	12-LFCSP-3X3X0.75	1	2.65	3.3
MAX2373	LNAs with Step Attenuator and VGA	LNA	100M	1G	15	14.5	2.5m	12-LFCSP-3X3X0.75	1	2.65	3.3
MAX2644	2.4GHz SiGe, High IP3 Low-Noise Amplifier	LNA	2.4G	2.5G	17	14	2.7m	EVALUATION BOARDS, Single Chip Package	1	2.7	5.5
MAX2655	1575MHz/1900MHz Variable-IP3 Low-Noise Amplifiers	LNA	1.4G	1.7G	14.1	16.9	5.9m	Single Chip Package	1	2.7	5.5
MAX2645	3.4GHz to 3.8GHz SiGe Low-Noise Amplifier/PA Predriver	LNA	3.4G	3.8G	14.4	25	2.7m	10-MINI_SO_EP-N/A	1	3	5.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
MAX2642	900MHz SiGe, High-Variable IP3, Low-Noise Amplifier	LNA	800M	1G	16.7	16.7	5.3m	Single Chip Package	1	2.7	5.5
MAX2643	900MHz SiGe, High-Variable IP3, Low-Noise Amplifier	LNA	800M	1G	16.7	16.7	2.8m	Single Chip Package	1	2.7	5.5
MAX2685	Low-Cost, 900MHz, Low-Noise Amplifier and Downconverter Mixer	LNA	800M	1G	15	-	3.8m	16-QSOP-150_MIL	-	2.7	5.5
MAX2232	900MHz ISM-Band, 250mW Power Amplifiers with Analog or Digital Gain Control	Power Amp	800M	1G	-	-	-	16-QSOP-150_MIL	-	2.7	5.5
MAX2233	900MHz ISM-Band, 250mW Power Amplifiers with Analog or Digital Gain Control	Power Amp	800M	1G	-	-	-	16-QSOP-150_MIL	-	2.7	5.5
MAX2235	+3.6V, 1W Autoramping Power Amplifier for 900MHz Applications	Power Amp	800M	1G	-	-	610m	20-TSSOP_4.4_EP-4.4_MM	-	2.7	5.5
MAX2640	300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers	LNA	400M	1.5G	15.1	5.1	3.5m	6-SOT_23-N/A	1	2.7	5.5
MAX2641	300MHz to 2500MHz SiGe Ultra-Low-Noise Amplifiers	LNA	1.4G	2.5G	14.4	10.4	5.3m	6-SOT_23-N/A	1	2.7	5.5
MAX2601	3.6V, 1W RF Power Transistors for 900MHz Applications	Power Amp	0	1G	-	-	-	8-SOIC_N-150_MIL	-	-	6
MAX2602	3.6V, 1W RF Power Transistors for 900MHz Applications	Power Amp	0	1G	-	-	-	EVALUATION BOARDS,8-SOIC_N-150_MIL	-	-	6

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
MAX2630	VHF-to-Microwave, +3V, General-Purpose Amplifiers	LNA	100M	1G	13.4	-1	6.6m	4-SOT_23-N/A	1	2.7	5.5
MAX2633	VHF-to-Microwave, +3V, General-Purpose Amplifiers	LNA	100M	1G	13.4	-1	6.6m	6-SOT_23-N/A	1	2.7	5.5
MAX2650	DC-to-Microwave, +5V Low-Noise Amplifier	LNA	0	1G	19	10	18m	4-SOT_23-N/A	1	4.5	5.5
MAX2611	DC-to-Microwave, Low-Noise Amplifier	LNA	0	1.1G	18.5	13	16m	4-SOT_23-N/A	1	5	5
HMC-ABH209-Die	Medium Power Amplifier Chip, 55 - 65 GHz	Driver Amp	55G	65G	13	25	80m	CHIPS OR DIE	1	-	5
HMC-ABH241-Die	Medium Power Amplifier Chip, 50 - 66 GHz	Driver Amp	50G	66G	24	25	220m	CHIPS OR DIE	1	-	5
HMC-ABH264-Die	Medium Power Amplifier Chip, 34 - 42 GHz	Driver Amp	34G	42G	18.5	29	120m	CHIPS OR DIE	1	-	5
HMC-ALH102-Die	Wideband Low Noise Amplifier Chip, 2 - 20 GHz	LNA, Wideband Distributed Amps	2G	20G	10	-	55m	CHIPS OR DIE	1	-	2
HMC-ALH140-Die	Low Noise Amplifier Chip, 24 - 40 GHz	LNA	24G	40G	11.5	-	60m	CHIPS OR DIE	1	-	4
HMC-ALH216-Die	Low Noise Amplifier Chip, 14 - 27 GHz	LNA	14G	27G	18	-	90m	CHIPS OR DIE	1	-	4
HMC-ALH244-Die	Low Noise Amplifier Chip, 24 - 40 GHz	LNA	24G	40G	12	-	45m	CHIPS OR DIE	1	-	4
HMC-ALH310-Die	Low Noise Amplifier Chip, 37 - 42 GHz	LNA	37G	42G	22	-	52m	CHIPS OR DIE	1	-	2.5
HMC-ALH311-Die	Low Noise Amplifier Chip, 22 - 26.5 GHz	LNA	22G	26.5G	25	-	54m	CHIPS OR DIE	1	-	2.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC-ALH313-Die	Low Noise Amplifier Chip, 27 - 33 GHz	LNA	27G	33G	20	-	52m	CHIPS OR DIE	1	-	2.5
HMC-ALH364-Die	Low Noise Amplifier Chip, 24 - 32 GHz	LNA	24G	32G	21	-	68m	CHIPS OR DIE	1	-	5
HMC-ALH369-Die	Low Noise Amplifier Chip, 24 - 40 GHz	LNA	24G	40G	17	-	66m	CHIPS OR DIE	1	-	5
HMC-ALH376-Die	Low Noise Amplifier Chip, 35 - 45 GHz	LNA	35G	45G	12	-	87m	CHIPS OR DIE	1	-	4
HMC-ALH382-Die	Low Noise Amplifier Chip, 57 - 65 GHz	LNA	57G	65G	21	-	64m	CHIPS OR DIE	1	-	2.5
HMC-ALH435-Die	Low Noise Amplifier Chip, 5 - 20 GHz	LNA	5G	20G	13	25	30m	CHIPS OR DIE	1	-	5
HMC-ALH444-Die	Low Noise Amplifier Chip, 1 - 12 GHz	Gain Block, LNA	1G	12G	17	28	55m	CHIPS OR DIE	1	-	5
HMC-ALH445-Die	GaAs HEMT MMIC Low Noise Amplifier, 18 - 40 GHz	LNA	18G	40G	10	-	45m	CHIPS OR DIE	1	-	5
HMC-ALH476-Die	Low Noise Amplifier Chip, 14 - 27 GHz	LNA	14G	27G	20	-	90m	CHIPS OR DIE	1	-	4
HMC-ALH482-Die	Low Noise Amplifier Chip, 2 - 22 GHz	LNA, Wideband Distributed Amps	2G	22G	16	-	45m	CHIPS OR DIE	1	-	4
HMC-ALH509-Die	Low Noise Amplifier Chip, 71 - 86 GHz	LNA	71G	86G	14	-	50m	CHIPS OR DIE	1	-	2
HMC-APH196-Die	Medium Power Amplifier Chip, 17 - 30 GHz	Driver Amp	17G	30G	20	31	400m	CHIPS OR DIE	1	-	5
HMC-APH460-Die	1/2 Watt Power Amplifier Chip, 27 - 31.5 GHz	Power Amp	27G	31.5G	14	37	900m	CHIPS OR DIE	1	-	5
HMC-APH462-Die	1 Watt Power Amplifier Chip, 15 - 27 GHz	Power Amp	15G	27G	17	37	1.4	CHIPS OR DIE	1	4	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC-APH596-Die	Medium Power Amplifier Chip, 16 - 33 GHz	Driver Amp	16G	33G	17	33	400m	CHIPS OR DIE	1	-	5
HMC-AUH232-Die	Modulator Driver Amplifier Chip, DC - 43 GHz	LNA, Wideband Distributed Amps	0	43G	14	-	180m	CHIPS OR DIE	1	-	5
HMC-AUH249-Die	Modulator Driver Amplifier Chip, DC - 35 GHz	Driver Amp, Wideband Distributed Amps	0	35G	15	-	200m	CHIPS OR DIE	1	-	5
HMC-AUH256-Die	Driver Amplifier Chip, 17.5 - 41.0 GHz	Driver Amp	17.5G	41G	21	27	295m	CHIPS OR DIE	1	-	5
HMC-AUH312-Die	Wideband Amplifier Chip, 0.5 - 80 GHz	LNA, Wideband Distributed Amps	0.5G	80G	10	23	60m	CHIPS OR DIE	1	-	8
HMC-AUH320-Die	Medium Power Amplifier Chip, 71 - 86 GHz	Driver Amp	71G	86G	15	-	130m	CHIPS OR DIE	1	-	4
HMC1022A-Die	GaAs, pHEMT, MMIC, 0.25 W Power Amplifier, DC to 48 GHz	Driver Amp, Wideband Distributed Amps	0	48G	11.5	29	150m	CHIPS OR DIE	1	9	10
HMC1040LP3CE	GaAs pHEMT MMIC Low Noise Amplifier SMT, 24 - 43.5 GHz	LNA, Wideband Distributed Amps	24G	43.5G	20	24	70m	16-Lead QFN (3mm x 3mm w/ EP)	1	-	-
HMC1049-Die	GaAs pHEMT MMIC Low Noise Amplifier, 0.3 GHz to 20 GHz	LNA, Wideband Distributed Amps	0.3G	20G	16	25	70m	CHIPS OR DIE	1	-	-
HMC1049LP5E	GaAs pHEMT MMIC Low Noise Amplifier, 0.3 - 20 GHz	LNA, Wideband Distributed Amps	0.3G	20G	15	29	70m	32-lead LFCSP (5mm x 5mm),32-Lead QFN (5mm x 5mm w/ EP)	1	-	-
HMC1086-Die	25 Watt GaN MMIC Power Amplifier, 2 GHz to 6 GHz	GaN Power Amp, Low Phase Noise, Power Amp	2G	6G	23	48	1.1	CHIPS OR DIE	1	-	-
HMC1086F10	25 Watt Flange Mount GaN MMIC Power Amplifier, 2 - 6 GHz	GaN Power Amp, Low Phase Noise, Power Amp	2G	6G	22	46	1100m	10 ld LDCC (11.43x17.32mm)	1	-	-

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC1087-Die	8 Watt GaN MMIC Power Amplifier, 2 - 20 GHz	GaN Power Amp, Power Amp	2G	20G	11	44	850m	CHIPS OR DIE	1	-	-
HMC1087F10	8 Watt GaN Flange Mount MMIC Power Amplifier, 2 - 20 GHz	GaN Power Amp, Power Amp	2G	20G	11	42.5	850m	10 ld LDCC (11.43x17.32mm)	1	-	-
HMC1126	GaAs, pHEMT, Low Noise Amplifier, 400 MHz to 52 GHz	LNA, Wideband Distributed Amps	400M	52G	12	28.5	85m	24-terminal LGA_CAV (5 mm x 5 mm x 1.60 mm)	-	-	-
HMC1126-Die	GaAs, pHEMT, MMIC, Power Amplifier, 2 GHz to 50 GHz	LNA, Wideband Distributed Amps	2G	50G	11	28	85m	CHIPS OR DIE	-	-	-
HMC1127	GaAs pHEMT MMIC High Gain Power Amplifier, 2 - 50 GHz	LNA, Wideband Distributed Amps	2G	50G	14	22	65m	CHIPS OR DIE	1	-	-
HMC263-Die	Low Noise Amplifier Chip, 24 - 36 GHz	LNA, Low Phase Noise	24G	36G	22	13	58m	CHIPS OR DIE	1	-	-
HMC263LP4E	GaAs MMIC Low Noise Amplifier, 24 - 36 GHz	LNA, Low Phase Noise	24G	36G	20	18	58m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	-	-
HMC311LP3	InGaP HBT Gain Block MMIC Amplifier, DC - 6 GHz	Gain Block, Low Phase Noise	0M	6G	14.5	32	55m	16-Lead LFCSP (3mm x 3mm x 0.85mm)	1	4.5	5.5
HMC311SC70	InGaP HBT Gain Block Amplifier SMT, DC - 8 GHz	Gain Block, Low Phase Noise	0M	8G	15	30	55m	6-Lead SC70	1	4.5	5.5
HMC311ST89	InGaP HBT Gain Block MMIC Amplifier, DC - 6 GHz	Gain Block, Low Phase Noise	0M	6G	15	27	55m	3-Lead SOT-89	1	4.5	5.5
HMC313	InGaP HBT Gain Block Amplifier SMT, DC - 6 GHz	Gain Block	0	6G	17	27	50m	6-Lead SOT-23	1	-	5
HMC326	GaAs InGaP HBT Driver Amplifier SMT, 3.0 - 4.5 GHz	Driver Amp, Low Phase Noise, Low Power Transceiver	3G	4.5G	21	36	130m	8-Lead MSOP w/ EP	1	-	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC327	MMIC Power Amplifier SMT, 3 - 4 GHz	Power Amp	3G	4G	21	40	250m	8-Lead MSOP w/ EP	1	-	5
HMC341-Die	GaAs MMIC Low Noise Amplifier, 24 - 30 GHz	LNA	24G	30G	13	16	30m	CHIPS OR DIE	1	-	-
HMC341LC3B	SMT GaAs pHEMT MMIC Low Noise Amplifier, 21 - 29 GHz	LNA	21G	29G	13	19	35m	12-Lead LCC (2.9mm x 2.9mm w/ EP)	1	-	3
HMC342-Die	Low Noise Amplifier Chip, 13 - 25 GHz	LNA	13G	25G	20	13	43m	CHIPS OR DIE	1	-	-
HMC342LC4	Low Noise Amplifier SMT, 13 - 25 GHz	LNA	13G	25G	22	20	43m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	3
HMC356	Low Noise Amplifier SMT, 350 - 550 MHz	LNA	350M	550M	17	38	104m	16-Lead LFCSP (3mm x 3mm x 0.9mm w/EP)	1	4.5	5.5
HMC3587	HBT Gain Block MMIC Amplifier, 4 - 10 GHz	Gain Block, Low Phase Noise	4G	10G	14.5	25	44m	12-Lead LFCSP (3mm x 3mm x 0.85mm w/ EP)	1	-	6
HMC3653	HBT Gain Block MMIC Amplifier, 7 - 15 GHz	Gain Block, Low Phase Noise	7G	15G	15	28	44m	12-Lead LFCSP (3mm x 3mm x 0.85mm w/ EP)	1	-	6
HMC372	GaAs pHEMT MMIC Low Noise Amplifier, 700 - 1000 MHz	LNA	700M	1G	15	34	100m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	4.5	5.5
HMC373	GaAs PHEMT MMIC Low Noise Amplifier w/ Bypass Mode, 700 - 1000 MHz	LNA	700M	1G	14	35	90m	16-Lead QFN (3mm x 3mm w/ EP)	1	4.5	5.5
HMC374	Low Noise Amplifier SMT, 0.3 - 3.0 GHz	LNA	0.3G	3G	15	37	90m	6-Lead SOT-23	1	-	-
HMC374SC70E	GaAs pHEMT Low Noise Amplifier SMT, 0.3 - 3.0 GHz	LNA	600M	3G	15	33.5	75m	6-Lead SC70	1	3	3.6

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC375	GaAs pHEMT MMIC Low Noise Amplifier, 1.7 - 2.2 GHz	LNA	1.8G	2.2G	17	33	136m	16-Lead QFN (3mm x 3mm w/ EP)	1	4.5	5.5
HMC376	Low Noise Amplifier SMT, 0.7 - 1.0 GHz	LNA	700M	1G	15	36	73m	16-Lead QFN (3mm x 3mm w/ EP)	1	4.5	5.5
HMC382	Low Noise Amplifier SMT, 1.7 - 2.2 GHz	LNA	1.7G	2.2G	17	29.5	67m	16-Lead LFCSP (3mm x 3mm x 0.9mm w/EP)	1	4.5	5.5
HMC383-Die	Medium Power Amplifier Chip, 12 - 30 GHz	Driver Amp	12G	30G	16	25	100m	CHIPS OR DIE	1	-	-
HMC383LC4	Medium Power Amplifier SMT, 12 - 30 GHz	Driver Amp	12G	30G	15	25	100m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	-
HMC392A-Die	GaAs MMIC LOW NOISE AMPLIFIER, 3.5 - 7.0 GHz	LNA	3.5G	7G	17.2	32.5	59m	CHIPS OR DIE	1	4.5	5.5
HMC395-Die	InGaP HBT Gain Block Amplifier Chip, DC - 4 GHz	Gain Block	0	4G	15	28	54m	CHIPS OR DIE	1	5	5
HMC396-Die	InGaP HBT Gain Block Amplifier Chip, DC - 8 GHz	Gain Block	0	8G	12	30	56m	CHIPS OR DIE	1	5	5
HMC397-Die	InGaP HBT Gain Block Amplifier Chip, DC - 10 GHz	Gain Block	0	10G	15	24	56m	CHIPS OR DIE	1	5	5
HMC405-Die	InGaP HBT Gain Block Amplifier Chip, DC - 10 GHz	Gain Block	0	10G	16	25	50m	CHIPS OR DIE	1	5	5
HMC406	InGaP HBT Power Amplifier SMT, 5 - 6 GHz	Driver Amp	5G	5.9G	18	38	300m	8-Lead MSOP w/ EP	1	-	5
HMC407	GaAs InGaP HBT MMIC Power Amplifier, 5 - 7 GHz	Driver Amp	5G	7G	15	40	230m	8-Lead MSOP w/ EP	1	5	-
HMC408	1 Watt Power Amplifier SMT, 5.1 - 5.9 GHz	Power Amp	5.1G	5.9G	20	43	750m	16-Lead QFN (3mm x 3mm w/ EP)	1	-	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC409	1 Watt Power Amplifier SMT, 3.3 - 3.8 GHz	Power Amp	3.3G	3.8G	31	45.5	615m	24-Lead LFCSP (4mm x 4mm w/ EP)	1	-	5
HMC413	Power Amplifier SMT, 1.6 - 2.2 GHz	Power Amp	1.6G	2.2G	22	40	270m	16 ld QSOP_EP	1	-	3.6
HMC414	InGaP HBT Power Amplifier SMT, 2.2 - 2.8 GHz	Power Amp	2.2G	2.8G	20	39	300m	8-Lead MSOP w/ EP	1	-	5
HMC415	InGaP HBT Power Amplifier SMT, 4.9 - 5.9 GHz	Driver Amp	4.9G	5.9G	20	32	285m	16-Lead QFN (3mm x 3mm w/ EP)	1	-	3
HMC441-Die	GaAs pHEMT MMIC Medium Power Amplifier, 6 - 18 GHz	Driver Amp, Low Phase Noise	7G	15G	15.5	32	95m	CHIPS OR DIE	1	-	-
HMC441LC3B	GaAs pHEMT MMIC Medium Power Amplifier, 6 - 18 GHz	Driver Amp, Low Phase Noise	6G	18G	17	32	95m	12-Lead LCC (2.9mm x 2.9mm w/ EP)	1	2.7	5
HMC441LH5	Medium Power Amplifier SMT, 7.0 - 15.5 GHz	Driver Amp, Low Phase Noise	7G	15.5G	15	32	90m	12-Lead LCC (5mm x 5mm)	1	-	5
HMC441LM1	GaAs PHEMT MMIC Medium Power Amplifier, 7 - 15.5 GHz	Driver Amp, Low Phase Noise	7G	15.5G	16	30	90m	8-Lead LGA_CAV (5.08mm x 5.08mm)	1	-	5
HMC441LP3	GaAs pHEMT MMIC Medium Power Amplifier, 6.5 - 13.5 GHz	Driver Amp, Low Phase Noise	6.5G	13.5G	14	29	95m	16-Lead LFCSP (3mm x 3mm w/ EP), 16-Lead QFN (3mm x 3mm w/ EP)	1	-	5
HMC442-Die	Medium Power Amplifier Chip, 17.5 - 25.5 GHz	Driver Amp	17.5G	25.5G	15	28	84m	CHIPS OR DIE	1	-	-
HMC442LC3B	Medium Power Amplifier SMT, 17.5 - 25.5 GHz	Driver Amp	17.5G	25.5G	13	26	84m	12-Lead LCC (3mm x 3mm w/ EP)	1	-	5
HMC442LM1	Medium Power Amplifier SMT, 17.5 - 24.0 GHz	Driver Amp	17.5G	24G	14	27	85m	8-Lead LCC w/ EP	1	-	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC450	Power Amplifier SMT, 0.8 - 1.0 GHz	Driver Amp	0.8G	1G	26	40	310m	16 ld QSOP_EP	1	-	5
HMC451-Die	GaAs pHEMT MMIC Medium Power Amplifier, 5 - 20 GHz	Driver Amp	5G	20G	20	30	127m	CHIPS OR DIE	1	-	-
HMC451LC3	Medium Power Amplifier SMT, 5 - 20 GHz	Driver Amp	5G	20G	19	29	114m	16-Lead LCC (3mm x 3mm w/ EP)	1	-	5
HMC451LP3	GaAs pHEMT MMIC Medium Power Amplifier, 5 - 18 GHz	Driver Amp	5G	18G	18	28	120m	16-Lead QFN (3mm x 3mm w/ EP)	1	-	5
HMC452QS16G	1 Watt Power Amplifier SMT, 0.4 - 2.2 GHz	Power Amp	0.4G	2.17G	22.5	48	485m	16 ld QSOP_EP	1	-	-
HMC452ST89	1 Watt Power Amplifier SMT, 0.4 - 2.2 GHz	Power Amp	0.4G	2.17G	21	47	510m	3-Lead SOT-89	1	-	5
HMC453QS16G	1.6 Watt Power Amplifier SMT, 0.4 - 2.2 GHz	Power Amp	400M	2.17G	21.5	49	725m	16 ld QSOP_EP	1	-	5
HMC453ST89	1.6 Watt Power Amplifier SMT, 0.4 - 2.2 GHz	Power Amp	0.4G	2.17G	20.5	47	725m	3-Lead SOT-89	1	-	5
HMC454	½ Watt High IP3 Amplifier SMT, 0.4 - 2.5 GHz	Power Amp	824M	2.2G	12.5	41	150m	3-Lead SOT-89	1	-	5
HMC455	½ Watt High IP3 Amplifier SMT, 1.7 - 2.5 GHz	Power Amp	1.7G	2.5G	13	42	150m	16-Lead QFN (3mm x 3mm w/ EP)	1	-	5
HMC457	1 Watt Power Amplifier SMT, 1.7 - 2.2 GHz	Power Amp	1.71G	2.17G	27	45	500m	16 ld QSOP_EP	1	-	5
HMC459-Die	Wideband Power Amplifier Chip, DC - 18 GHz	Power Amp, Wideband Distributed Amps	0	18G	17	31.5	290m	CHIPS OR DIE	1	8	8
HMC460LC5	GaAs pHEMT MMIC Low Noise Amplifier, DC - 20 GHz	LNA, Low Phase Noise, Wideband Distributed Amps	0	20G	14	29	75m	32-Lead LCC (4.9mm x 4.9mm)	1	-	8

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC461	1 Watt High IP3 Amplifier SMT, 1.7 - 2.2 GHz	Power Amp	1.7G	2.2G	12	45	300m	-	1	-	5
HMC462-Die	Low Noise Amplifier Chip, 2 - 20 GHz	LNA, Wideband Distributed Amps	2G	20G	15	25	63m	CHIPS OR DIE	1	-	-
HMC462LP5	Wideband Low Noise Amplifier SMT, 2 - 20 GHz	LNA, Wideband Distributed Amps	2G	20G	13	25	66m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	5
HMC463-Die	GaAs PHEMT MMIC Low Noise AGC Amplifier, 2-20 GHz	LNA, Wideband Distributed Amps	2G	20G	14	28	60m	CHIPS OR DIE	1	-	-
HMC463LH250	GaAs pHEMT MMIC Low Noise AGC Amplifier, 2 - 20 GHz	LNA, Wideband Distributed Amps	2G	20G	14	27	60m	12-Lead LCC (6.35mm x 6.35mm)	1	-	5
HMC463LP5	GaAs pHEMT MMIC Low Noise AGC Amplifier, 2 - 20 GHz	LNA, Wideband Distributed Amps	2G	20G	13	24	60m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	5
HMC464-Die	Wideband Power Amplifier Chip, 2 - 20 GHz	Power Amp, Wideband Distributed Amps	2G	20G	16	30	290m	CHIPS OR DIE	1	-	-
HMC464LP5	Wideband Power Amplifier SMT, 2 - 20 GHz	Power Amp, Wideband Distributed Amps	2G	20G	14	26	290m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	-
HMC465-Die	Wideband Driver Amplifier Chip, DC - 20 GHz	Driver Amp, Wideband Distributed Amps	0G	20G	17	30	160m	CHIPS OR DIE	1	-	-
HMC465LP5	GaAs PHEMT MMIC Modulator Driver Amplifier, DC - 20 GHz	Driver Amp, Wideband Distributed Amps	0	20G	15	28	160m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	8
HMC480	InGaP HBT Gain Block Amplifier SMT, DC - 5 GHz	Gain Block	0M	5G	19	34	82m	3-Lead SOT-89	1	6	8

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC487	Surface Mount pHEMT 2 Watt Power Amplifier, 9 - 12 GHz	Power Amp	9G	12G	20	36	1300m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	7
HMC490-Die	Low Noise High IP3 Amplifier Chip, 12 - 17 GHz	LNA	12G	17G	27	35	200m	CHIPS OR DIE	1	-	-
HMC490LP5E	Low Noise High IP3 Amplifier SMT, 12 - 16 GHz	LNA	12G	16G	27	34	200m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	-
HMC498-Die	Medium Power Amplifier Chip, 17 - 24 GHz	Driver Amp	17G	24G	24	34	250m	CHIPS OR DIE	1	-	-
HMC498LC4	Medium Power Amplifier SMT, 17 - 24 GHz	Driver Amp	17G	24G	22	36	250m	24-Lead LCC (4 x 4mm)	1	-	5
HMC499-Die	Medium Power Amplifier Chip, 21 - 32 GHz	Driver Amp, Power Amp	21G	32G	16	33	200m	CHIPS OR DIE	1	-	-
HMC499LC4	Medium Power Amplifier SMT, 21 - 32 GHz	Driver Amp, Power Amp	21G	32G	17	34	200m	24-Lead LCC (4 x 4mm)	1	-	-
HMC504	Low Noise Amplifier SMT, 14 - 27 GHz	LNA	14G	27G	19.5	25.5	90m	24-Lead LCC (3.9mm x 3.9mm)	1	-	4.5
HMC516-Die	Low Noise Amplifier Chip, 7 - 17 GHz	LNA	7G	17G	21	20	65m	CHIPS OR DIE	1	-	-
HMC516LC5	Low Noise Amplifier SMT, 9 - 18 GHz	LNA	9G	18G	20	25	65m	32-Lead LCC (4.9mm x 4.9mm)	1	-	3
HMC517-Die	GaAs pHEMT MMIC Low Noise Amplifier, 17 - 26 GHz	LNA	17G	26G	20	23	65m	CHIPS OR DIE	1	-	-
HMC517LC4	Low Noise Amplifier SMT, 17 - 26 GHz	LNA	17G	26G	19	23	67m	24-Lead LCC (4 x 4mm)	1	-	3
HMC518-Die	Low Noise Amplifier Chip, 23 - 32 GHz	LNA	20G	32G	15	23	65m	CHIPS OR DIE	1	-	3

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC519-Die	GaAs pHEMT MMIC Low Noise Amplifier Chip, 18 - 32 GHz	LNA, Low Phase Noise	18G	32G	15	26	75m	CHIPS OR DIE	1	-	-
HMC519LC4	GaAs pHEMT MMIC Low Noise Amplifier, 18 - 31 GHz	LNA, Low Phase Noise	18G	31G	14.4	23	75m	24-Lead LCC (4 x 4mm)	1	-	3
HMC549	Dual Output Low Noise Amplifier, 0.04 - 0.96 GHz	LNA	40M	960M	5	27	120m	8-Lead MSOP w/ EP	1	3	5.5
HMC559-Die	Wideband Power Amplifier Chip, DC - 20 GHz	Power Amp, Wideband Distributed Amps	0	20G	14	36	400m	CHIPS OR DIE	1	-	10
HMC562-Die	Wideband Driver Amplifier Chip, 2 - 35 GHz	LNA, Wideband Distributed Amps	2G	35G	12.5	27	80m	CHIPS OR DIE	1	7.5	8.5
HMC564-Die	Low Noise Amplifier Chip, 7.0 - 13.5 GHz	LNA, Low Phase Noise	7G	13.5G	17	24	51m	CHIPS OR DIE	1	-	-
HMC564LC4	GaAs SMT pHEMT Low Noise Amplifier, 6 - 14GHz	LNA, Low Phase Noise	7G	14G	17	25	51m	24-Lead LCC (4 x 4mm)	1	-	-
HMC565-Die	GaAs PHEMT MMIC Low Noise Amplifier Chip, 6 - 20 GHz	LNA	6G	20G	22	20	53m	CHIPS OR DIE	1	-	-
HMC565LC5	Low Noise Amplifier SMT, 6 - 20 GHz	LNA	6G	20G	21	20	53m	32-Lead LCC (4.9mm x 4.9mm)	1	-	3
HMC566-Die	Low Noise Amplifier Chip, 29 - 36 GHz	LNA	29G	36G	21	23.5	80m	CHIPS OR DIE	1	-	-
HMC566LP4E	Low Noise Amplifier SMT, 28 - 36 GHz	LNA	28G	36G	21	24.5	83m	24-Lead QFN (4mm x 4mm w/ EP)	1	-	-
HMC589A	InGaP HBT Gain Block MMIC Amplifier, DC - 4 GHz	Gain Block, Low Phase Noise	0	4G	21	32	82m	3-Lead SOT-89	1	-	-

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC590-Die	1 Watt Power Amplifier Chip, 6 - 10 GHz	Driver Amp, Power Amp	6G	10G	25	41	820m	CHIPS OR DIE	1	-	-
HMC590LP5	GaAs pHEMT MMIC 1 Watt Power Amplifier, 6.0 - 9.5 GHz	Driver Amp, Power Amp	6G	9.5G	21	40	820m	32-Lead QFN (5mm x 5mm w/ EP)	1	-	-
HMC591-Die	2 Watt Power Amplifier Chip, 6 - 10 GHz	Driver Amp, Power Amp	6G	10G	23	43	1.3	CHIPS OR DIE	1	-	-
HMC591LP5	2 Watt Power Amplifier SMT, 6.0 - 9.5 GHz	Driver Amp, Power Amp	6G	9.5G	18	41	1.3	32-Lead QFN (5mm x 5mm w/ EP)	1	-	7
HMC594-Die	Low Noise Amplifier Chip, 2 - 4 GHz	Driver Amp, LNA	2G	4G	10	36	100m	CHIPS OR DIE	1	-	-
HMC594LC3B	GaAs pHEMT MMIC Low Noise Amplifier, 2 - 4 GHz	Driver Amp, LNA	2G	4G	10	36	100m	12-Lead LCC (3mm x 3mm w/ EP)	1	-	6
HMC599	Low Noise Amplifier, 50 - 1000 MHz	LNA	50M	1G	14	39	120m	3-Lead SOT-89	1	3	5
HMC606-Die	GaAs InGaP HBT MMIC Ultra Low Phase Noise, Distributed Amplifier, 2 - 18 GHz	LNA, Low Phase Noise, Wideband Distributed Amps	2G	18G	12.5	22	64m	CHIPS OR DIE	1	-	-
HMC606LC5	GaAs, InGaP, HBT, MMIC, Ultralow Phase Noise, Distributed Amplifier, 2 GHz to 18 GHz	LNA, Low Phase Noise, Wideband Distributed Amps	2G	18G	12.5	22	64m	32-Lead LCC (4.9mm x 4.9mm)	1	-	-
HMC608	GaAs pHEMT Medium Power Amplifier, 9.5 - 11.5 GHz	Driver Amp	9.5G	11.5G	29	33	310m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	7
HMC609-Die	Low Noise Amplifier Chip, 2 - 4 GHz	Driver Amp, LNA	2G	4G	20.5	36	170m	CHIPS OR DIE	1	-	-
HMC609LC4	Low Noise Amplifier SMT, 2 - 4 GHz	Driver Amp, LNA	2G	4G	20	36.5	170m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	6

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC618A	GaAs SMT pHEMT Low Noise Amplifier, 1.2 - 2.2 GHz	LNA	1.2G	2.2G	19	35	117m	16-Lead LFCSP (3mm x 3mm x 0.85mm)	1	-	-
HMC633-Die	GaAs PHEMT MMIC Driver Amplifier, 5 - 17 GHz	Driver Amp, Wideband Distributed Amps	5G	17G	29	30	180m	CHIPS OR DIE	1	-	-
HMC633LC4	SMT Driver Amplifier, 5.5 - 17 GHz	Driver Amp, Wideband Distributed Amps	5.5G	17G	30	30	180m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	5
HMC634-Die	Driver Amplifier Chip, 5 - 20 GHz	Driver Amp, Wideband Distributed Amps	5G	20G	22	31	180m	CHIPS OR DIE	1	-	-
HMC634LC4	SMT Driver Amplifier, 5 - 20 GHz	Driver Amp, Wideband Distributed Amps	5G	20G	21	29	180m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	-
HMC635-Die	Driver Amplifier Chip, 18 - 40 GHz	Driver Amp, Wideband Distributed Amps	18G	40G	19.5	29	280m	CHIPS OR DIE	1	-	-
HMC635LC4	GaAs PHEMT MMIC Driver Amplifier, 18 - 40 GHz	Driver Amp, Wideband Distributed Amps	18G	40G	18.5	27	280m	24-Lead LCC (4 x 4mm)	1	-	-
HMC636	High IP3 SMT Amplifier, 0.2 - 4.0 GHz	Gain Block	200M	4G	13	39	155m	3-Lead SOT-89	1	-	5.5
HMC637A-Die	GaAs MMIC 1 WATT POWER AMPLIFIER DC - 6 GHz	Power Amp, Wideband Distributed Amps	0G	6G	15.5	43	400m	CHIPS OR DIE	1	8	13
HMC637ALP5	GaAs, pHEMT, MMIC, 1 W Power Amplifier, 0.1 GHz to 6 GHz	Power Amp, Wideband Distributed Amps	0G	6G	15.5	44	400m	32-lead LFCSP (5mm x 5mm), 32-Lead QFN (5mm x 5mm w/ EP)	1	8	13
HMC639	High IP3, Low Noise Amplifier, 0.2 - 4.0 GHz	LNA	0.2G	4G	13	38	110m	3-Lead SOT-89	1	-	5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC659-Die	Power Amplifier Chip, DC - 15 GHz	Power Amp, Wideband Distributed Amps	0G	15G	19	32	300m	CHIPS OR DIE	1	-	9
HMC659LC5	Power Amplifier SMT, DC - 15 GHz	Power Amp, Wideband Distributed Amps	0	15G	19	32	300m	32-Lead LFCSP_CAV (5mm x 5mm w/ EP)	1	-	9
HMC6981	2 Watt Power Amplifier SMT, 15 - 20 GHz	Power Amp	15G	20G	26	43.5	1100m	16-Lead LCC (6mm x 6mm w/EP)	1	-	-
HMC7054	Ka-Band HPA	Block Upconverter, Power Amp	29G	31G	42	47.5	14.3m	MODULE WITH HEAT SINK	1	-5.1	5.1
HMC7149-Die	10 Watt GaN MMIC Power Amplifier, 6 - 18 GHz	GaN Power Amp, Power Amp	6G	18G	19	39.5	680m	CHIPS OR DIE	1	-	-
HMC7229LS6	GaAs, pHEMT, MMIC, 1 W, Power Amplifier with Power Detector, 37 GHz to 40 GHz	Power Amp	37G	40G	24	40	1200m	16-Lead LCC (6mm x 6mm w/EP)	1	5	6
HMC7357	GaAs pHEMT MMIC 2 Watt Power Amplifier, 5.5 - 8.5 GHz	Driver Amp, Power Amp	5.5G	8.5G	29	41.5	1200m	24 ld LFCSP (5x5mm w/2.35mm EP)	1	-	8
HMC740	InGaP HBT Active Bias MMIC Amplifier, 0.05 - 3 GHz	Gain Block	50M	3G	15	38	88m	3-Lead SOT-89	1	-	5.5
HMC741	InGaP HBT Active Bias MMIC Amplifier, 0.05 - 3 GHz	Gain Block	150M	3G	20	40.5	96m	3-Lead SOT-89	1	-	5.5
HMC7441	GaAs pHEMT MMIC 2 Watt Power Amplifier, 27.5 - 31 GHz	Power Amp	27.5G	31G	23	38	1000m	CHIPS OR DIE	1	6	6.5
HMC751	Low Noise Amplifier SMT, 17 - 27 GHz	LNA	17G	27G	25	25	73m	24-Lead LCC (4mm x 4mm w/ EP)	1	3.5	4.5

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC752	GaAs HEMT MMIC Low Noise Amplifier, 24 - 28 GHz	LNA	24G	28G	25	26	70m	24-Lead LCC (4 x 4mm)	1	-	4.5
HMC753	Low Noise Amplifier SMT, 1 - 11 GHz	LNA	1G	11G	16.5	30	55m	24-Lead QFN (4mm x 4mm w/ EP)	1	-	6
HMC754	GaAs HBT High Linearity Push-Pull Amplifier, 75 Ohm, DC - 1 GHz	Gain Block	0M	1G	14.5	38	160m	8-Lead MSOP (3mm x 3mm w/ EP)	1	-	5.5
HMC772	Low Noise Amplifier SMT, 2 - 12 GHz	LNA	2G	12G	15	25	45m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	5
HMC788A	0.01 GHz to 10 GHz, MMIC, GaAs, pHEMT RF Gain Block	Gain Block, Low Phase Noise	10M	10G	14	33	76m	6-Lead LFCSP (2mm x 2mm x 0.85mm)	1	4.5	5.5
HMC789	InGaP HBT Active Bias MMIC Amplifier, 0.7 - 2.8 GHz	Driver Amp	810M	2.7G	11	42	125m	3-Lead SOT-89	1	-	5
HMC797A-Die	GaAs pHEMT MMIC 1 Watt Power Amplifier, DC - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	22G	15	41	400m	CHIPS OR DIE	1	8	11
HMC797ALP5E	-	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	22G	15	41	400m	-	1	8	11
HMC8113	2 GHz to 6 GHz, 500 W Power Amplifier	GaN Power Amp, Power Amp, SSHPA	2G	6G	85	57	-	MODULE CONNECTORIZED	1	175	227
HMC8114	5.8 GHz to 18 GHz, 90 W Power Amplifier	GaN Power Amp, Power Amp, SSHPA	5.8G	18G	68	52	-	MODULE CONNECTORIZED	1	-	-

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC863ALC4	GaAs pHEMT MMIC 1/2 Watt Power Amplifier, 24 - 29.5 GHz	Power Amp	24G	29.5G	24	38.5	350m	24-Lead LCC (4 x 4mm)	1	4	6
HMC902-Die	5 GHz to 11 GHz GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA	5G	11G	20	28	80m	CHIPS OR DIE	1	-	-
HMC902LP3E	5 GHz to 11 GHz GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA	5G	11G	19	28	80m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	-	3.5
HMC903-Die	6 GHz to 18 GHz GaAs, pHEMT, MMIC, Low Noise Amplifier	LNA	6G	18G	19	27	90m	CHIPS OR DIE	1	-	-
HMC903LP3E	GaAs, pHEMT, MMIC, Low Noise Amplifier, 6 GHz to 17 GHz	LNA	6G	17G	18	25	80m	16-Lead LFCSP (3mm x 3mm w/ EP)	1	-	3.5
HMC907A-Die	GaAs pHEMT MMIC Power Amplifier, 0.2 - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	200M	22G	13.5	41	350m	CHIPS OR DIE	1	8	11
HMC907ALP5E	-	Low Phase Noise, Power Amp, Wideband Distributed Amps	200M	22G	13	40	350m	-	1	8	11
HMC920	Active Bias Controller SMT	PA Bias Controller	-	-	-	-	-	32-Lead QFN (5mm x 5mm w/ EP)	1	5	16.5
HMC943APM5E	>1.5 W (34 dBm), 24 GHz to 34 GHz, GaAs, pHEMT, MMIC, Power Amplifier	Power Amp	24G	34G	23	37.5	1.3	32-Lead LFCSP (5mm x 5mm w/ EP)	1	4	6
HMC962	GaAs pHEMT MMIC Low Noise Amplifier, 7.5 - 26.5 GHz	LNA, Wideband Distributed Amps	7.5G	26.5G	13	23	70m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	4

	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Gain typ dB	OIP3 typ	Is typ	Package	# of Channels	Vs+ min	Vs+ max
HMC963	GaAs pHEMT MMIC Low Noise Amplifier, 6 - 26.5 GHz	LNA, Wideband Distributed Amps	6G	26.5G	22	18	45m	24-Lead LCC (4mm x 4mm w/ EP)	1	-	-
HMC980-Die	Active Bias Controller High Current	PA Bias Controller	-	-	-	-	-	CHIPS OR DIE	1	5	16.5
HMC980LP4E	High-Current, Active Bias Controller	PA Bias Controller	-	-	-	-	-	24-Lead QFN (4mm x 4mm w/ EP)	1	5	16.5
HMC981-Die	Active Bias Controller	PA Bias Controller	-	-	-	-	-	-	1	4	12
HMC981LP3E	Active Bias Controller SMT	PA Bias Controller	-	-	-	-	-	16-Lead QFN (3mm x 3mm w/ EP)	1	4	12
HMC994A-Die	GaAs pHEMT MMIC 0.5 Watt Power Amplifier, DC - 30 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	30G	15	36	250m	CHIPS OR DIE	1	8	12
HMC998A-Die	GaAs pHEMT MMIC 2 Watt Power Amplifier, 0.1 - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	22G	14.5	43	500m	CHIPS OR DIE	1	11	15
HMC998ALP5E	-	Low Phase Noise, Power Amp, Wideband Distributed Amps	0.1G	20G	11	41	500m	-	1	11	15
HMC998APM5E	GaAs pHEMT MMIC 2 Watt Power Amplifier, DC - 22 GHz	Low Phase Noise, Power Amp, Wideband Distributed Amps	0	22G	15	42	500m	32-Lead LFCSP (5mm x 5mm w/ EP)	1	11	15

RF Connectorized Modules, System In Package, and Instrumentation

Parts	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Vs typ	Is typ
HMC7748	LAST TIME BUY	2 GHz to 6 GHz, 25 W Power Amplifier Module	Power Amp Module	2G	6G	-	-
HMC7891	LAST TIME BUY	2 GHz to 18 GHz Limiting Amplifier Module	Limiting Amplifier Module	2G	18G	8	300m
HMC-C584	PRODUCTION	0.1 GHz to 40 GHz, 31 dB, 5-Bit Digital Attenuator	Digitally Controlled Atten Module	100M	40G	-	-
HMC-C582	LAST TIME BUY	0.01 GHz to 20 GHz, Ultra Wideband Power Amplifier Module	Power Amp Module	10M	20G	15	690m
HMC-C583	LAST TIME BUY	0.1 GHz to 40 GHz, SPST Switch	SPST Switch	100M	40G	5	-
AD2S99	PRODUCTION	Programmable Oscillator	-	-	-	-	-
HMC7056AG	LAST TIME BUY	Ka-Band Block Upconverter with HPA	Block Upconverter	29G	31G	-	-
HMC-C001	LAST TIME BUY	Wideband Low Noise Amplifier Module, 2 - 20 GHz	Wideband Distributed Amp Module	2G	20G	12	78m
HMC-C002	LAST TIME BUY	Wideband Low Noise Amplifier Module, 2 - 20 GHz	Wideband Distributed Amp Module	2G	20G	12	93m
HMC-C004	RECOMMENDED FOR NEW DESIGNS	Wideband Driver Amplifier Module, 0.01 - 20 GHz	Wideband Distributed Amp Module	10M	20G	12	195m
HMC-C006	LAST TIME BUY	InGaP HBT Divide-By-4 Module, 0.5 - 18 GHz	Frequency Multiply/Divide Module	-	-	-	-
HMC-C007	LAST TIME BUY	InGaP HBT Divide-By-8 Module, 0.5 - 18 GHz	Frequency Multiply/Divide Module	-	-	-	-
HMC-C009	PRODUCTION	I/Q Mixer Module, 4 - 8.5 GHz	I/Q and Image Reject Modules	4G	8.5G	-	0m
HMC-C010	LAST TIME BUY	600° Analog Phase Shifter Module, 6 - 15 GHz	Phase Shifter Module	-	-	-	-

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Vs typ	Is typ
HMC-C011	PRODUCTION	Hi Isolaton SPDT Switch Module, DC - 20 GHz	SPST Switch	0	20G	-	-
HMC-C014	PRODUCTION	DBL-BAL Mixer Module, 16 - 32 GHz	Single, Double, Triple Balanced Modules	16G	26G	-	0m
HMC-C015	LAST TIME BUY	DBL-BAL Mixer Module, 24 - 38 GHz	Single, Double, Triple Balanced Modules	24G	38G	-	0m
HMC-C016	LAST TIME BUY	Wideband Low Noise Amplifier Module, 7 - 17 GHz	Wideband Distributed Amp Module	7G	17G	12	93m
HMC-C017	LAST TIME BUY	Wideband Low Noise Amplifier Module, 17 - 27 GHz	Wideband Distributed Amp Module	17G	27G	12	96m
HMC-C018	PRODUCTION	0.5dB LSB 6-Bit Digital Attenuator Module, DC - 13 GHz	Digitally Controlled Atten Module	0	13G	-	-
HMC-C019	PRODUCTION	Hi Isolation SPST Switch Module,DC - 20 GHz	SPDT Switch	0	20G	-	-
HMC-C020	LAST TIME BUY	Wideband Power Amplifier Module, 17 - 24 GHz	Wideband Distributed Amp Module	17G	24G	12	250m
HMC-C021	LAST TIME BUY	Wideband Power Amplifier Module, 21 - 31 GHz	Wideband Distributed Amp Module	21G	31G	12	215m
HMC-C024	RECOMMENDED FOR NEW DESIGNS	Wideband Driver Amplifier Module, 0.01 - 20 GHz	Wideband Distributed Amp Module	10M	20G	12	225m
HMC-C025	PRODUCTION	0.5dB LSB 6-Bit Digital Attenuator Module, DC - 13 GHz	Digitally Controlled Atten Module	0	13G	-	-
HMC-C026	RECOMMENDED FOR NEW DESIGNS	Wideband High Gain Power Amplifier Module, 2 - 20 GHz	Wideband Distributed Amp Module	2G	20G	-	400m
HMC-C027	LAST TIME BUY	Wideband Low Noise Amplifier Module, 29 - 36 GHz	LNA Module	29G	36G	3	80m
HMC-C028	LAST TIME BUY	Wideband VCO w/Buffer Amplifier Module, 4 - 8 GHz	Wideband VCO Module	4G	8G	12	185m
HMC-C029	LAST TIME BUY	Wideband VCO w/Buffer Amplifier Module, 5 - 10 GHz	Wideband VCO Module	5G	10G	12	195m

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Vs typ	Is typ
HMC-C030	LAST TIME BUY	Wideband VCO w/Buffer Amplifier Module, 8.0 - 12.5 GHz	Wideband VCO Module	8G	12.5G	12	195m
HMC-C031	LAST TIME BUY	x2 Active Multiplier Module, 6 - 10 GHz Fout	Frequency Multiply/Divide Module	-	-	-	-
HMC-C032	LAST TIME BUY	x2 Active Multiplier Module, 18 - 29 GHz Fout	Frequency Multiply/Divide Module	-	-	-	-
HMC-C033	LAST TIME BUY	x2 Active Multiplier Module, 24 - 33 GHz Fout	Frequency Multiply/Divide Module	-	-	-	-
HMC-C034	LAST TIME BUY	x2 Active Multiplier Module, 32 - 46 GHz Fout	Frequency Multiply/Divide Module	-	-	-	-
HMC-C035	LAST TIME BUY	DBL-BAL Mixer Module, 23 - 37 GHz	Single, Double, Triple Balanced Modules	23G	37G	-	0m
HMC-C040	LAST TIME BUY	InGaP HBT Divide-by-10 Module, 0.5 - 17.0 GHz	Frequency Multiply/Divide Module	-	-	-	-
HMC-C041	LAST TIME BUY	I/Q Mixer / IRM Module, 6 - 10 GHz	I/Q and Image Reject Modules	6G	10G	-	0m
HMC-C042	LAST TIME BUY	I/Q Mixer / IRM Module, 8.5 - 13.5 GHz	I/Q and Image Reject Modules	8.5G	13.5G	-	0m
HMC-C044	LAST TIME BUY	I/Q Mixer / IRM Module, 15 - 23 GHz	I/Q and Image Reject Modules	15G	23G	-	0m
HMC-C046	LAST TIME BUY	I/Q Mixer Module, 20 - 31 GHz	I/Q and Image Reject Modules	20G	31G	-	0m
HMC-C048	RECOMMENDED FOR NEW DESIGNS	Low Noise Amplifier Module, 5 - 9 GHz	LNA Module	5G	9G	12	105m
HMC-C049	LAST TIME BUY	GaAs MMIC Fundamental Mixer, 7 - 14 GHz	Single, Double, Triple Balanced Modules	7G	14G	-	0m
HMC-C050	LAST TIME BUY	Ultra Low Phase Noise Distributed Amplifier Module, 2 - 18 GHz	Low Phase Noise Amp Module	2G	18G	5	104m
HMC-C053	PRODUCTION	Voltage Variable Attenuator Module, DC to 20 GHz	Voltage Variable Atten Module	0	20G	-	-
HMC-C055	LAST TIME BUY	22.5° 4-Bit Digital Phase Shifter Module, 8 - 12 GHz	Phase Shifter Module	-	-	-	-

	Product Lifecycle	Description	RF Primary Function	Freq Response RF min	Freq Response RF max	Vs typ	Is typ
HMC-C056	LAST TIME BUY	8 GHz to 21 GHz, GaAs, pHEMT, x2 Active Frequency Multiplier Module	Frequency Multiply/Divide Module	-	-	-	-
HMC-C058	PRODUCTION	GaAs MMIC SPDT Non-Reflective Switch, DC - 18 GHz	SPDT Switch	0	18G	-	-
HMC-C059	LAST TIME BUY	Wideband Low Noise Amplifier Module, 1 - 12 GHz	LNA Module	1G	12G	6	60m
HMC-C071	PRODUCTION	GaAs MMIC SP4T Non-Reflective Switch, DC - 20 GHz	SPDT Switch	0	20G	-	-
HMC-C072	RECOMMENDED FOR NEW DESIGNS	Ultra Low Phase Noise Amplifier Module, 6 - 12 GHz	Low Phase Noise Amp Module	6G	12G	7	170m
HMC-C073	LAST TIME BUY	Wideband VCO w/Buffer Amplifier Module, 38.4 - 43.2 GHz	Wideband VCO Module	38.4G	43.2G	5	350m
HMC-C074	LAST TIME BUY	Single Stage Power Amplifier Module, 10 MHz to 6 GHz	Power Amp Module	10M	6G	15	450m
HMC-C075	LAST TIME BUY	Two Stage Power Amplifier Module, 10 MHz - 6 GHz	Power Amp Module	10M	6G	15	740m
HMC-C077	LAST TIME BUY	Ultra Low Phase Noise Amplifier Module, 1.5 - 5 GHz	Low Phase Noise Amp Module	1.5G	5G	8	170m
HMC-C079	LAST TIME BUY	Ultra Low Phase Noise Amplifier Module, 3 - 8 GHz	Low Phase Noise Amp Module	3G	8G	7	110m
HMC-C088	PRODUCTION	Successive Detection Log Video Amplifier (SDLVA), 1 - 20 GHz	SDLVA Module	1G	20G	12	86m
HMC-C200	LAST TIME BUY	8 GHz to 8.3 GHz, Dielectric Resonator Oscillator Module	Dielectric Resonator Oscillator	8G	8.3G	6.5	116m
HMC6980	LAST TIME BUY	Wideband Power Amplifier Module, 0.01 - 20 GHz	Wideband Distributed Amp Module	500M	20G	12	345m
HMC7054	LAST TIME BUY	Ka-Band HPA	Block Upconverter, Power Amp	29G	31G	5	14.3m

RF Integrated Transmitters, Receivers, and Transceivers

Parts	Description	Product Lifecycle	RF Primary Function	Freq Response min	Freq Response max	Vs+ min	Vs+ max	Power typ
ADMV1139A	37 GHz to 50 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	37G	50G	-	-	-
AD9084	Apollo MxFE Quad, 16-Bit, 28 GSPS RF DAC and Quad, 12-Bit, 20 GSPS RF ADC	PRE-RELEASE	Mixed Signal Front End, Narrow/Wideband RF Transceiver, RF Transceivers, Wideband RF Transceivers	1M	18G	-	-	-
AD9088	Apollo MxFE Octal, 16-Bit, 16 GSPS RF DAC and Octal, 12-Bit, 8 GSPS RF ADC	PRE-RELEASE	Mixed Signal Front End, Narrow/Wideband RF Transceiver, RF Transceivers, Wideband RF Transceivers	1M	12G	-	-	-
ADMV9613	60 GHz Millimeterwave Short Data Link	RECOMMENDED FOR NEW DESIGNS	Data Link, Microwave and mmWave Tx/Rx	-	-	4.75	5.25	2.5
ADMV9623	60 GHz Millimeterwave Short Data Link	RECOMMENDED FOR NEW DESIGNS	Data Link, Microwave and mmWave Tx/Rx	-	-	4.75	5.25	2.5
ADMV4630	Ku Band Upconverter with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	14G	14.5G	-	-	-
ADMV4640	Ku Band Downconverter with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	10.7G	12.7G	-	-	-
ADAQ8092	14-Bit, 105 MSPS, µModule	RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	394m
AD9914S	3.5 GPSP Direct Digital Synthesizer with 12-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.71	3.465	2.4
ADMV9611	60 GHz Millimeterwave Short Data Link	RECOMMENDED FOR NEW DESIGNS	Data Link, Microwave and mmWave Tx/Rx	-	-	4.75	5.25	2.5
ADMV9621	60 GHz Millimeterwave Short Data Link	RECOMMENDED FOR NEW DESIGNS	Data Link, Microwave and mmWave Tx/Rx	-	-	4.75	5.25	2.5

	Description	Product Lifecycle	RF Primary Function	Freq Response min	Freq Response max	Vs+ min	Vs+ max	Power typ
ADMV4540	K Band Quadrature Demodulator with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters, Downconverters/Receivers, Downconverting Mixer, I/Q Demodulator w/ LO, I/Q Demodulator with Output Amplifiers	17G	21G	3.135	3.465	3.2
AD9177	Quad, 16-Bit, 12 GSPS RF DAC with Wideband Channelizers	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	-	-	-	1.05	6.4
ADRV9003	Narrow-Band and Wideband RF Transceiver	PRODUCTION	Narrow/Wideband RF Transceiver	30M	6G	1	1.8	-
AD9986	4T2R Direct RF Transmitter and Observation Receiver	RECOMMENDED FOR NEW DESIGNS	Cable Modem Baseband/IF Signal Processing, E-band, Narrow/Wideband RF Transceiver	-	7.5G	-	-	-
ADRV9004	Dual Narrow/Wideband RF Transceiver	RECOMMENDED FOR NEW DESIGNS	Narrow/Wideband RF Transceiver	30M	6G	1	1.8	-
ADRV9002	Dual Narrow-Band and Wideband RF Transceiver	RECOMMENDED FOR NEW DESIGNS	Narrow/Wideband RF Transceiver	30M	6G	1	1.8	-
MAX41473	290MHz to 960MHz ASK/FSK Receiver with I2C Interface	RECOMMENDED FOR NEW DESIGNS	ISM RF Receiver	-	-	-	-	-
MAX41474	290MHz to 960MHz ASK/FSK Receiver with I2C Interface	RECOMMENDED FOR NEW DESIGNS	ISM RF Receiver	-	-	-	-	-
AD9988	4T4R Direct RF Receiver and Transmitter	RECOMMENDED FOR NEW DESIGNS	Narrow/Wideband RF Transceiver, RF Sampling Receiver, Wideband RF Transceivers	-	7.5G	-	-	-
ADRV9010	Integrated, Quad RF Transceiver with Observation Path	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	650M	6G	1	1.8	5.5
AD9081	MxFE™ Quad, 16-Bit, 12GSPS RFDAC and Quad, 12-Bit, 4GSPS RFADC	RECOMMENDED FOR NEW DESIGNS	IF/RF MxFE	0	7G	0.95	1.05	8.5
ADRV9029	Integrated, Quad RF Transceiver with Observation Path	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	75M	6G	-	-	-
AD9361S	RF Agile Transceiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	70M	6G	1.3	3.3	-

	Description	Product Lifecycle	RF Primary Function	Freq Response min	Freq Response max	Vs+ min	Vs+ max	Power typ
MAX11947	4 Channel AISG Integrated Transceiver	PRODUCTION	AISG Transceivers	-	-	-	-	-
ADA4355	Programmable Transimpedance, Current to Bits Receiver µModule	RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	3.1	3.6	540m
MAX41470	290MHz to 960MHz ASK/FSK Receiver with SPI Interface	RECOMMENDED FOR NEW DESIGNS	ISM RF Receiver	-	-	-	-	-
ADAR2001	10 GHz to 40 GHz, 1:4 Channel, 4× Frequency Multiplier/Filter	RECOMMENDED FOR NEW DESIGNS	Frequency Multipliers, Microwave and mmWave Tx/Rx	10G	40G	2.5	2.75	425m
ADAR2004	10 GHz to 40 GHz, 4-Channel Rx Mixer with 4× LO Multiplier/Filter	RECOMMENDED FOR NEW DESIGNS	Downconverters/Receivers, Downconverting Mixer, Microwave and mmWave Tx/Rx, Wideband RF Receiver	10G	40G	2.25	2.75	910m
AD9166	DC to 9 GHz, Vector Signal Generator	RECOMMENDED FOR NEW DESIGNS	-	-	-	-	-	4.88
AD9082	MxFE Quad, 16-Bit, 12 GSPS RF DAC and Dual, 12-Bit, 6 GSPS RF ADC	RECOMMENDED FOR NEW DESIGNS	IF/RF MxFE	0	7G	0.95	1.05	8.8
ADMV4530	Dual-mode, Ka Band Upconverter with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	IF Upconverter/Transmitter, IQ Upconverters/Transmitters	27G	31G	3.8	4.2	1.8
MAX2223	Ultra-Wideband, Direct-Conversion, L-Band Satellite Tuner	RECOMMENDED FOR NEW DESIGNS	TV Tuners	-	-	-	-	-
ADRV9026	Integrated, Quad RF Transceiver with Observation Path	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	650M	6G	1	1.8	5
MAX5861	DOCSIS 3.1 High-Density SCQAM and OFDM Downstream Cable Modulator	PRODUCTION	Modulators and Digital Upconverters	-	-	-	-	-
ADMV7310	E-Band Upconverter SiP, 71 GHz to 76 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	71G	76G	-	-	5
ADMV7320	E-Band Upconverter SiP, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	81G	86G	-	-	5

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
ADMV7410	E-Band Low Noise Downconverter SiP, 71 GHz to 76 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	71G	76G	-	-	-
ADMV7420	E-Band Low Noise Downconverter SiP, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	81G	86G	-	-	-
ADMV1017	24 GHz to 29.5 GHz, 5G Up/Down converter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	-	-	1.75
MAX41461	300MHz–960MHz ASK Transmitter with I2C Interface	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX41462	300MHz–960MHz ASK Transmitter with I2C Interface	PRODUCTION	ISM Transmitter	-	-	-	-	-
ADF5902	24 GHz, ISM Band, Multichannel FMCW Radar Transmitter	RECOMMENDED FOR NEW DESIGNS	FMCW Radar Transmitter	24G	24.25G	3.135	3.465	627m
MAX41460	300MHz–960MHz ASK and (G)FSK Transmitter with SPI Interface	RECOMMENDED FOR NEW DESIGNS	ISM Transmitter	-	-	-	-	-
AD9174	Dual, 16-Bit, 12.6 GSPS RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	-	-	0.95	1.89	2.55
ADMV4420	K Band Downconverter with Integrated Fractional-N PLL and VCO	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	16.95G	22.05G	4.75	5	1.9
ADRV9008-1	Integrated Dual RF Receiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Receiver	75M	6G	1.3	3.3	3.5
ADRV9008-2	Integrated Dual RF Transmitter and Observation Receiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transmitters plus Observation Receivers	75M	6G	1.3	3.3	3.5
MAX41463	300MHz–960MHz (G)FSK Transmitter with I2C Interface	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX41464	300MHz–960MHz (G)FSK Transmitter with I2C Interface	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX2771	Multiband Universal GNSS Receiver	PRODUCTION	GPS Receivers	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
ADRV9009	Integrated Dual RF Tx, Rx, and Observation Rx	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	75M	6G	1.3	3.3	3.5
ADMV7710	71 GHz to 76 GHz, 1 Watt E-Band Power Amplifier With Power Detector	RECOMMENDED FOR NEW DESIGNS	Power Amp	-	-	4	4.5	-
LTM2173-14	14-Bit, 80Msps Low Power Quad ADC	RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	385m
AD9375	Integrated, Dual RF Transceiver with Observation Path	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	300M	6G	1.3	3.3	2.7
ADRF6520	Dual Programmable Filters and VGAs for 2 GHz Channel Spacing for μ W Radios	RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters	36M	720M	3.15	3.45	-
AD6688	RF Diversity and 1.2GHz BW Observation Receiver	RECOMMENDED FOR NEW DESIGNS	RF Sampling Receiver	0	9G	-	-	3.3
MAX2769C	Universal GNSS Receiver	PRODUCTION	GPS Receivers	-	-	-	-	-
AD9363	RF Agile Transceiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	325M	3.8G	1.3	3.3	-
AD6684	135 MHz Quad IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	1.4G	-	-	1.68
AD9371	Integrated, Dual RF Transceiver with Observation Path	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	300M	6G	1.3	3.3	-
HMC6300	60 GHz Millimeterwave Transmitter, 57 GHz to 64 GHz	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	57G	64G	-	-	-
HMC6301	MillimeterWave Receiver, 57 GHz to 64 GHz	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	57G	64G	-	-	-
AD9164	16-Bit, 12 GSPS, RF DAC and Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	-	-	1.14	3.465	2.35
ADF7030-1	High Performance, Sub GHz Radio Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	169M	960M	2.2	3.6	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
AD9161	11-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	-	-	-	1.14	3.465	2.35
AD9162	16-Bit, 12 GSPS, RF Digital-to-Analog Converters	RECOMMENDED FOR NEW DESIGNS	-	-	-	1.14	3.465	2.35
HMC7584	E-Band Upconverter SiP 71 - 76 GHz	NOT RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	71G	76G	-2	4	-
HMC7585	E-Band Upconverter SiP 81 - 86 GHz	NOT RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	81G	86G	-2	4	-
HMC8326	E-Band Low Noise Downconverter SiP 71 - 76 GHz	NOT RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	71G	76G	-2	4	-
HMC8327	E-Band Low Noise Downconverter SiP 81 - 86 GHz	NOT RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	81G	86G	-2	4	-
HMC8100	Intermediate Frequency Receiver 800 MHz - 4000 MHz	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx, Wideband RF Transceivers	800M	4G	3	3.6	-
HMC7543	71 GHz to 76 GHz, E-Band Power Amplifier With Power Detector	RECOMMENDED FOR NEW DESIGNS	Driver Amp, Power Amp	-	-	4	4.5	-
HMC7586	71 GHz to 76 GHz, E-Band I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	71G	76G	3	4.5	-
HMC7587	E-Band I/Q Downconverter, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	81G	86G	3	4.5	-
HMC8121	81 GHz to 86 GHz, E-Band Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	Variable Gain Amplifier	81G	86G	-5	4	-
HMC8142	81 GHz to 86 GHz, E-Band Power Amplifier with Power Detector	RECOMMENDED FOR NEW DESIGNS	Driver Amp, Power Amp	-	-	4	4.5	-
HMC8118	71 GHz to 76 GHz, E-Band I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	71G	76G	-1	4	-
HMC8119	81 GHz to 86 GHz, E-Band I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	81G	86G	-1	4	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power _{typ}
HMC8120	71 GHz to 76 GHz, E-Band Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	Variable Gain Amplifier	71G	76G	-5	4	-
HMC8200	Intermediate Frequency Transmitter 800 MHz to 4000 MHz	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx, Wideband RF Transceivers	800M	4G	3	3.6	-
ADF5901	24 GHz VCO and PGA with 2-Channel PA Output	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	24G	24.25G	3.135	3.465	-
ADF7030	High Performance, Low Power, 169MHz ISM Band, Radio Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	169.4M	169.6M	2.2	3.6	-
AD6679	135 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	2G	3.2	3.4	2.2
ADF5904	4-Channel, 24 GHz, Receiver Downconverter	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	24G	24.25G	3.135	3.465	-
AD6674-1000	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	2G	-	-	3.3
AD6674-500	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	2G	-	-	2.2
AD6674-750	385 MHz BW IF Diversity Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	2G	-	-	2.8
ADAR7251	4-Channel, 16-Bit, Continuous Time Data Acquisition ADC	NOT RECOMMENDED FOR NEW DESIGNS	Precision ADC	-	-	2.97	3.6	400m
AD6676	Wideband IF Receiver Subsystem	RECOMMENDED FOR NEW DESIGNS	IF Receiver	70M	450M	1.0725	2.5625	1.2
MAX3519	DOCSIS 3.0 Upstream Amplifier	PRODUCTION	TV Tuners	-	-	-	-	-
AD8285	Radar Receive Path AFE: 4-Channel LNA/PGA/AAF with ADC	RECOMMENDED FOR NEW DESIGNS	Receive Path AFE	-	-	1.7	3.5	185m
ADSP-BF700	Low Power 200MHz Blackfin+ Embedded Processor with 128KByte L2 SRAM	PRODUCTION	Blackfin+ Embedded Processor	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power _{typ}
AD9364	1 x 1 RF Agile Transceiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	71M	6G	1.3	3.3	-
MAX5860	Scalable High-Density Downstream Cable QAM Modulator	PRODUCTION	Modulators and Digital Upconverters	-	-	-	-	-
MAX5862	High-Density Downstream Cable QAM Modulator	NOT RECOMMENDED FOR NEW DESIGNS	Modulators and Digital Upconverters	-	-	-	-	-
AD9361	RF Agile Transceiver	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	70M	6G	1.3	3.3	-
AD6673	80 MHz Bandwidth, Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	400M	1.7	1.9	837m
LTM9013	300MHz Wideband Receiver	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	2.6
AD9102	Low Power, 14-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	1.7	3.6	96m
LTM9006-14	14-Bit, 25Msps Low Power Octal ADCs	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	369m
LTM9007-14	14-Bit, 40Msps Low Power Octal ADCs	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	475m
AD9106	Quad, Low Power, 12-Bit, 180 MSPS, Digital-to-Analog Converter and Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	1.7	3.6	315m
LTM9008-14	14-Bit, 65Msps Low Power Octal ADCs	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	700m
MAX2173	RF to Bits Tuner for Digital Audio Broadcast	PRODUCTION	Radio Tuner	-	-	-	-	-
MAX2550	Band I, V, and VIII WCDMA Femtocell Transceiver with GSM Monitoring	PRODUCTION	RF Transceivers	-	-	-	-	-
AD9915	2.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.71	3.465	2.2

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
AD9914	3.5 GSPS Direct Digital Synthesizer with 12-bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.71	3.465	2.4
ADF4159	Direct Modulation/Fast Waveform Generating, 13 GHz, Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	-	-	2.7	3.45	-
ADF7024	Easy To Use, Low Power, Sub GHz, ISM/SRD, FSK/GFSK, Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	431M	928M	2.2	3.6	-
MAX5882	14-Bit, 4.6Gsp/s Cable Downstream Direct RF Synthesis DAC	NOT RECOMMENDED FOR NEW DESIGNS	DDS, High Speed DAC	-	-	3.2	3.3	2.3
LTM9012	Quad 14-Bit, 125Msps ADC with Integrated Drivers	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	1.27
ADSP-21477	High Performance Fourth Generation DSP	PRODUCTION	High Performance DSP	-	-	-	-	-
AD6657A	65MHz Bandwidth Quad IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	2.5M	400M	1.7	1.9	1.25
AD6672	IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	350M	1.7	1.9	423m
MAX5879	14-Bit, 2.3Gsp/s Direct RF Synthesis DAC with Selectable Frequency Response	PRODUCTION	DDS, High Speed DAC	-	-	3.2	3.3	2.3
MAX2769B	Universal GPS Receiver	PRODUCTION	GPS Receivers	-	-	-	-	-
LTM9009-14	14-Bit, 80Msps Low Power Octal ADCs	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	801m
LTM9010-14	14-Bit, 105Msps Low Power Octal ADCs	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	950m
LTM9011-14	14-Bit, 125Msps Low Power Octal ADCs	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	1.145
AD9837	Low Power, 8.5 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	12.21m

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
AD9838	11 mW Power, 2.3 V to 5.5 V, Complete DDS	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	15.18m
AD6641-500	250 MHz Bandwidth DPD Observation Receiver	RECOMMENDED FOR NEW DESIGNS	Cable Modem Baseband/IF Signal Processing	-	-	1.8	2	695m
AD6643-200	Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	400M	1.7	1.9	765m
AD6643-250	Dual IF Receiver	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	400M	1.7	1.9	853m
ADF7023-J	High Performance, Low Power, ISM Band FSK/GFSK/MSK/GMSK Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	902M	958M	1.8	3.65	-
ADF7241	Low Power IEEE 802.15.4 Zero-IF 2.4 GHz Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	2.4G	2.4G	1.8	3.65	-
LTM9004-AA	14-Bit Direct Conversion Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.83
LTM9004-AB	14-Bit Direct Conversion Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.83
LTM9004-AC	14-Bit Direct Conversion Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.83
LTM9004-AD	14-Bit Direct Conversion Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.83
ADF7242	Low Power IEEE 802.15.4/Proprietary GFSK/FSK Zero-IF 2.4 GHz Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	2.4G	2.4G	1.8	3.65	-
AD9961	10-/12-Bit, Low Power, Broadband MxFE	RECOMMENDED FOR NEW DESIGNS	IF MxFE	2.5M	800M	1.72	3.63	342m
AD9963	10-/12-Bit, Low Power, Broadband MxFE	RECOMMENDED FOR NEW DESIGNS	IF MxFE	2.5M	700M	1.72	3.63	425m
ADSP-21478	High Performance Fourth Generation DSP	PRODUCTION	High Performance DSP	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response min	Freq Response max	Vs+ min	Vs+ max	Power typ
ADSP-21479	High Performance Fourth Generation DSP	PRODUCTION	High Performance DSP	-	-	-	-	-
MAX2135A	ISDB-T/DVB-T Diversity Tuner	PRODUCTION	TV Tuners	-	-	-	-	-
MAX2851	5GHz, 5-Channel MIMO Receiver	PRODUCTION	RF Transceivers	-	-	-	-	-
MAX9947	AISG Integrated Transceiver	PRODUCTION	AISG Transceivers	-	-	-	-	-
ADF7021-V	High Performance, Narrow-Band Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	80M	960M	2.3	3.6	-
MAX2850	5GHz, 4-Channel MIMO Transmitter	PRODUCTION	RF Transceivers	-	-	-	-	-
LTM9001-GA	16-Bit, 25Msps IF/Baseband Receiver Subsystem	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	550m
ADF4158	Direct Modulation/Waveform Generating, 6.1 GHz Fractional-N Frequency Synthesizer	RECOMMENDED FOR NEW DESIGNS	Fractional-N PLL, Integer-N PLL	-	-	2.7	3.3	-
LTM9003-AA	12-Bit Digital Pre-Distortion µModule Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.472
LTM9003-AB	12-Bit Digital Pre-Distortion µModule Receiver Subsystem	LAST TIME BUY	Signal Chain uModule Receivers	-	-	-	-	1.591
LTM9002-AA	14-Bit, 125Msps Dual-Channel IF/Baseband Receiver Subsystem	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	1.329
LTM9002-LA	14-Bit, 125Msps Dual-Channel IF/Baseband Receiver Subsystem	NOT RECOMMENDED FOR NEW DESIGNS	Signal Chain uModule Receivers	-	-	-	-	690m
MAX7036	300MHz to 450MHz ASK Receiver with Internal IF Filter	PRODUCTION	ISM RF Receiver	-	-	-	-	-
ADF7022	io-homecontrol® Compliant RF Transceiver	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	868M	868M	1.8	3.65	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
MAX3518	DOCSIS 3.0 Upstream Amplifier	PRODUCTION	TV Tuners	-	-	-	-	-
ADF7023	High Performance, Low Power, ISM Band FSK/GFSK/OOK/MSK/GMSK Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	862M	928M	1.8	3.65	-
MAX2172	Direct-Conversion to Low-IF Tuner for Digital Audio Broadcast	PRODUCTION	Radio Tuner	-	-	-	-	-
ADF7902	ISM Band FSK Receiver IC	PRODUCTION	Low Power Transceiver, Rx only	369.5M	395.9M	5	5	-
AD9868	Broadband Modem Mixed-Signal Front End	PRODUCTION	IF MxFE	70M	300M	3.135	3.45	1.57
AD9913	Low Power 250 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	50m
ADF7021-N	High Performance Narrow-Band Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	169M	928M	2.3	3.6	-
MAX7058	315MHz/390MHz Dual-Frequency ASK Transmitter	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX7034	315MHz/434MHz ASK Superheterodyne Receiver	PRODUCTION	ISM RF Receiver	-	-	-	-	-
LTM9001-AA	16-Bit IF/Baseband Receiver Subsystem	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	1.65
LTM9001-AD	16-Bit IF/Baseband Receiver Subsystem	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	1.65
LTM9001-BA	16-Bit IF/Baseband Receiver Subsystem	PRODUCTION	Signal Chain uModule Receivers	-	-	-	-	1.914
AD9912	1 GSPS Direct Digital Synthesizer with 14-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	637m
ADF7021	High Performance Narrowband ISM Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	80M	950M	2.3	3.6	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
AD9911	500 MSPS Direct Digital Synthesizer with 10-Bit DAC	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	241m
MAX2112	Complete, Direct-Conversion Tuner for DVB-S2 Applications	PRODUCTION	TV Tuners	-	-	-	-	-
AD9854	CMOS 300 MSPS Quadrature Complete DDS	PRODUCTION	DDS	-	-	3.1	3.5	3.5
MAX2120	Complete, Direct-Conversion Tuner for DVB-S and Free-to-Air Applications	PRODUCTION	TV Tuners	-	-	-	-	-
AD9956	2.7 GHz DDS-Based AgileRF™ Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	400m
AD9910	1 GSPS, 14-Bit, 3.3 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	3.5	715m
MAX2830	2.4GHz to 2.5GHz 802.11g/b RF Transceiver with PA and Rx/Tx/Diversity Switch	PRODUCTION	RF Transceivers	-	-	-	-	-
MAX2170	Direct-Conversion to Low-IF Tuners for Digital Audio Broadcast	PRODUCTION	Radio Tuner	-	-	-	-	-
MAX2769	Universal GPS Receiver	PRODUCTION	GPS Receivers	-	-	-	-	-
AD9858	1 GSPS Direct Digital Synthesizer	PRODUCTION	DDS	-	-	3.1	5.25	2
AD5933	1 MSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS	-	-	2.7	5.5	33m
AD5934	250 kSPS, 12-Bit Impedance Converter, Network Analyzer	PRODUCTION	DDS	-	-	2.7	5.5	33m
AD9954	400 MSPS, 14-Bit, 1.8 V CMOS, Direct Digital Synthesizer	PRODUCTION	DDS	-	-	1.8	1.8	162m
MAX2831	2.4GHz to 2.5GHz, 802.11g RF Transceivers with Integrated PA	PRODUCTION	RF Transceivers	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power _{typ}
MAX2832	2.4GHz to 2.5GHz, 802.11g RF Transceivers with Integrated PA	PRODUCTION	RF Transceivers	-	-	-	-	-
AD9834	20 mW Power, 2.3 V to 5.5 V, 75 MHz Complete DDS	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	19.14m
AD9952	400 MSPS 14-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	162m
AD5932	Programmable Frequency Scan Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	20.26m
AD9958	2-Channel, 500 MSPS DDS with 10-Bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	350m
AD9959	4 Channel 500 MSPS DDS with 10-bit DACs	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	580m
ADF7020	ISM Band Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	433M	950M	2.3	3.6	-
ADF7020-1	High Performance FSK/ASK Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	80M	650M	2.3	3.6	-
ADF7025	ISM Band Transceiver IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	431M	928M	2.3	3.6	-
AD5930	Programmable Frequency Sweep and Output Burst Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	20.26m
AD9830	Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	-	-	4.75	5.25	250m
AD9831	Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	-	-	3	5.5	40m
AD9832	25 MHz Direct Digital Synthesizer Waveform Generator	PRODUCTION	DDS	-	-	4.5	5.5	87.5m
AD9833	Low Power, 12.65 mW, 2.3 V to 5.5 V, Programmable Waveform Generator	PRODUCTION	DDS, Waveform Generator	-	-	2.3	5.5	14.85m

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
AD9835	50 MHz Direct Digital Synthesizer, Waveform Generator	PRODUCTION	DDS	-	-	4.75	5.25	73.5m
AD9851	180 MHz Complete DDS synthesizer	PRODUCTION	DDS	-	-	2.7	5.25	555m
AD9861-50	Mixed-Signal Front-End (MxFE™) Baseband Transceiver for Broadband Applications	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	0	-	2.7	3.6	-
AD9861-80	Mixed-Signal Front-End (MxFE™) Baseband Transceiver for Broadband Applications	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	0	-	2.7	3.6	-
AD9865	Broadband Modem Mixed-Signal Front End	PRODUCTION	IF MxFE	0	-	3.135	3.45	475m
AD9866	12-Bit Broadband Modem Mixed Signal Front End (MxFE®)	NOT RECOMMENDED FOR NEW DESIGNS	IF MxFE	0	1G	3.135	3.45	1.66
AD9877	Single Supply Cable Modem/Set Top Box Mixed Signal Front End (MxFE®)	PRODUCTION	IF MxFE	0	450M	3.135	3.45	1.17
AD9859	400 MSPS 10-Bit DAC 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	162m
AD9951	400 MSPS 14-Bit 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	162m
AD9953	400 MSPS, 14-Bit, 1.8 V CMOS Direct Digital Synthesizer	RECOMMENDED FOR NEW DESIGNS	DDS	-	-	1.8	1.8	162m
MAX7030	Low-Cost, 315MHz and 433.92MHz ASK Transceiver with Fractional-N PLL	PRODUCTION	ISM Transceivers	-	-	-	-	-
MAX7042	308MHz/315MHz/418MHz/433.92MHz Low-Power, FSK Superheterodyne Receiver	PRODUCTION	ISM RF Receiver	-	-	-	-	-
MAX7032	Low-Cost, Crystal-Based, Programmable, ASK/FSK Transceiver with Fractional-N PLL	PRODUCTION	ISM Transceivers	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power typ
ADF7901	High Performance ISM Band ASK/FSK Transmitter IC	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver, Tx only	369.5M	395.9M	3	3	-
MAX2828	Single-/Dual-Band 802.11a/b/g World-Band Transceiver ICs	PRODUCTION	RF Transceivers	-	-	-	-	-
MAX2829	Single-/Dual-Band 802.11a/b/g World-Band Transceiver ICs	PRODUCTION	RF Transceivers	-	-	-	-	-
ADF7012	Multichannel ISM Band FSK/GFSK /OOK/GOOK/ASK Transmitter	NOT RECOMMENDED FOR NEW DESIGNS	Low Power Transceiver	75M	1G	2.3	3.6	-
MAX1479	300MHz to 450MHz Low-Power, Crystal-Based +10dBm ASK/FSK Transmitter	PRODUCTION	ISM Transmitter	-	-	-	-	-
AD9850	CMOS, 125 MHz Complete DDS Synthesizer	PRODUCTION	DDS	-	-	3.3	5	380m
MAX7033	315MHz/433MHz ASK Superheterodyne Receiver with AGC Lock	PRODUCTION	ISM RF Receiver	-	-	-	-	-
MAX1471	315MHz/434MHz Low-Power, 3V/5V ASK/FSK Superheterodyne Receiver	PRODUCTION	ISM RF Receiver	-	-	-	-	-
MAX7044	300MHz to 450MHz High-Efficiency, Crystal-Based +13dBm ASK Transmitter	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX1472	300MHz-to-450MHz Low-Power, Crystal-Based ASK Transmitter	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX1473	315MHz/433MHz ASK Superheterodyne Receiver with Extended Dynamic Range	PRODUCTION	ISM RF Receiver	-	-	-	-	-
MAX2150	Wideband I/Q Modulator with Sigma-Delta Fractional-N Synthesizer	PRODUCTION	Broadband	-	-	-	-	-
MAX2900	200mW Single-Chip Transmitter ICs for 868MHz/915MHz ISM Bands	PRODUCTION	ISM Transmitter	-	-	-	-	-

	Description	Product Lifecycle	RF Primary Function	Freq Response _{min}	Freq Response _{max}	Vs+ _{min}	Vs+ _{max}	Power _{typ}
MAX2902	200mW Single-Chip Transmitter ICs for 868MHz/915MHz ISM Bands	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX2903	200mW Single-Chip Transmitter ICs for 868MHz/915MHz ISM Bands	PRODUCTION	ISM Transmitter	-	-	-	-	-
MAX1470	315MHz Low-Power, +3V Superheterodyne Receiver	PRODUCTION	ISM RF Receiver	-	-	-	-	-
MAX2510	Low-Voltage IF Transceiver with Limiter RSSI and Quadrature Modulator	PRODUCTION	ISM Transceivers	-	-	-	-	-
MAX2411A	Low-Cost RF Up/Downconverter with LNA and PA Driver	PRODUCTION	RF Transceivers	-	-	-	-	-
MAX2511	Low-Voltage IF Transceiver with Limiter and RSSI	PRODUCTION	ISM Transceivers	-	-	-	-	-
AD6677	-	RECOMMENDED FOR NEW DESIGNS	IF Receiver	0	400M	1.7	1.9	500m
ADMV1018	24.0 GHz to 29.5 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	-	-	1.75
ADMV1128A	24 GHz to 29.5 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	-	-	-
ADMV1228	24.0 GHz to 29.5 GHz 2 Transmit/2 Receive Dual Polarization UDC + Beamformer	RECOMMENDED FOR NEW DESIGNS	Microwave and mmWave Tx/Rx	24G	29.5G	-	-	-
ADMV1239	37.0 GHz to 43.5 GHz 2 Transmit/2 Receive Dual Polarization UDC + Beamformer	PRE-RELEASE	Microwave and mmWave Tx/Rx	-	-	-	-	-
ADRF6521	Low Frequency to 3 GHz, Dual VGA with Output Common-Mode and DC Offset Control	RECOMMENDED FOR NEW DESIGNS	Variable Gain Amplifier	10M	3G	-	-	-
ADRV9044	-	RECOMMENDED FOR NEW DESIGNS	Wideband RF Transceivers	-	-	-	-	18

RF Mixers

Parts	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
ADMFM2000	Dual-Channel, 0.5 GHz to 32 GHz, Microwave Downconverter	RECOMMENDED FOR NEW DESIGNS	Frequency Converter SIP, I/Q Downconverters/Receivers	500M	32G	7G	30G	500M	8G	3.8
ADMV1550	15 GHz to 65 GHz, GaAs, MMIC, Double Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	15G	65G	50G	65G	0	20G	-8
ADMV1530	5 GHz to 30 GHz, GaAs, MMIC, Double Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	5G	30G	5G	30G	0	10G	-7
ADMV1139A	37 GHz to 50 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	37G	50G	7.25G	12.05G	-	-	-
HMC525A-Die	4 GHz to 8.5 GHz, Wideband I/Q Mixer	PRODUCTION	IQ and Image Reject	4G	8.5G	4G	8.5G	0	3.5G	-8
HMC560A-Die	22 GHz to 38 GHz, GaAs, MMIC, Double Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	24G	38G	22G	38G	0	18G	-11
HMC560ALM3	22 GHz to 38 GHz, GaAs, MMIC, Double Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	22G	38G	22G	38G	0	18G	-11
ADAR2004	10 GHz to 40 GHz, 4-Channel Rx Mixer with 4× LO Multiplier/Filter	RECOMMENDED FOR NEW DESIGNS	Downconverters/Receivers, Downconverting Mixer, Microwave and mmWave Tx/Rx, Wideband RF Receiver	10G	40G	2.5G	10G	0	800M	-
HMC553A-Die	6 GHz to 14 GHz, GaAs, MMIC, Double-Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	6G	14G	6G	14G	0	5G	-8
HMC977	GaAs, MMIC, I/Q, Downconverter, 20 GHz to 28 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	20G	28G	8.3G	15.7G	0	3.5M	14

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
ADRF6650	Dual Downconverter with DVGA and PLL/VCO, 450 MHz to 2700 MHz	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulator w/ LO, I/Q Demodulators, I/Q Downconverters/Receivers	450M	2.7G	450M	2.9G	50M	500M	30
HMC8192-Die	20 GHz to 42 GHz, Wideband I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	20G	42G	20G	42G	0	5G	-10
HMC8192LG	20 GHz to 42 GHz, Wideband I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	20G	42G	20G	42G	0	5G	-9
HMC554A-Die	10 GHz to 20 GHz, GaAs, MMIC, Double-Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	10G	20G	10G	20G	0	6G	-8.5
HMC521A-Die	8.5 GHz to 13.5 GHz, GaAs, MMIC, I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject, IQ Upconverters/Transmitters	8.5G	13.5G	8.5G	13.5G	0	3.5G	-7
HMC521ALC4	8.5 GHz to 13.5 GHz, GaAs, MMIC, I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	8.5G	13.5G	8.5G	13.5G	0	3.5G	-9
ADMV7310	E-Band Upconverter SiP, 71 GHz to 76 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	71G	76G	11.8G	12.7G	0	2G	35
HMC220B	5 GHz to 12 GHz GaAs, MMIC, Fundamental Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	5G	12G	5G	12G	0	4G	-9
ADMV7320	E-Band Upconverter SiP, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	81G	86G	13.4G	14.6G	0	2G	33
ADMV7410	E-Band Low Noise Downconverter SiP, 71 GHz to 76 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	71G	76G	11.5G	13G	0	2G	13
ADMV7420	E-Band Low Noise Downconverter SiP, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	E-band, I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	81G	86G	13.2G	14.6G	0	2G	10

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
ADMV1017	24 GHz to 29.5 GHz, 5G Up/Down converter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	5G	15G	-	-	-
HMC908A	9 GHz to 12 GHz, GaAs, MMIC, I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ and Image Reject	9G	12G	8.5G	15.5G	0	3.5G	11
LTC5555	1.5GHz to 7GHz Programmable Gain Downconverting Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	1.5G	7G	500M	8G	1M	900M	9.2
ADMV1013	24 GHz to 44 GHz, Wideband, Microwave Upconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators, IQ Upconverters/Transmitters	24G	44G	5.4G	10.25G	0	6G	18
ADMV1014	24 GHz to 44 GHz, Wideband, Microwave Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Demodulators, I/Q Downconverters/Receivers	24G	44G	5.4G	10.25G	0	6G	17
HMC329A-Die	22 GHz to 38 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	22G	38G	22G	38G	0	8G	-11
HMC798A	24 GHz to 34 GHz, GaAs, MMIC, Subharmonic SMT Mixer	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	24G	34G	12G	18G	0	4G	-10
HMC329ALC3B	GaAs, MMIC, Double Balanced Mixer, 24 - 32 GHz	PRODUCTION	Single, Double & Triple Balanced Mixers	24G	32G	24G	32G	0	8G	-10.5
HMC773A-Die	GaAs MMIC Fundamental Mixer, 6 - 26 GHz	PRODUCTION	Single, Double & Triple Balanced Mixers	6G	26G	6G	26G	0	10G	-10
LTC5556	1.5GHz to 7GHz Dual Programmable Gain Downconverting Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	1.5G	7G	500M	8G	1M	900M	9.1
HMC774A-Die	7 GHz to 40 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	7G	40G	7G	40G	0	10G	-11
HMC554ALC3B	10 GHz to 20 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	10G	20G	10G	20G	0	6G	-7

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC951A	5.6 GHz to 8.6 GHz, GaAs, MMIC, I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	Downconverting Mixer, I/Q Downconverters/Receivers	5.6G	8.6G	4.5G	12.1G	0	3.5G	13
HMC260A-Die	10 GHz to 26 GHz, GaAs MMIC Fundamental Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	10G	26G	10G	26G	0	8G	-8.5
HMC213B	1.5 GHz to 4.5 GHz, GaAs, MMIC, Double Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	1.5G	4.5G	1.5G	4.5G	0	1.5G	-10.5
HMC292A-Die	14 GHz to 32 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	14G	32G	14G	32G	0	8G	-9
HMC525ALC4	4 GHz to 8.5 GHz, GaAs, MMIC, I/Q Mixer	PRODUCTION	IQ and Image Reject	4G	8.5G	4G	8.5G	0	3.5G	-8
HMC1048A	2.25 GHz to 18 GHz, MMIC, Double Balanced Downconverter	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	2.25G	18G	2.25G	18G	0	4G	-10
HMC524A	22 GHz to 32 GHz, GaAs, MMIC, I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	22G	32G	22G	32G	0G	4.5G	-9
HMC553ALC3B	6 GHz to 14 GHz, GaAs, MMIC, Double-Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	6G	14G	6G	14G	0	5G	-9
HMC774ALC3B	7 GHz to 34 GHz, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	7G	34G	7G	34G	0	8G	-12
HMC260ALC3B	10 GHz to 26 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	10G	26G	10G	26G	0	8G	-8
HMC815B	21 GHz to 27 GHz, GaAs, MMIC, I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	21G	27G	10.5G	14.5G	0	3.75G	12
LTC5562	LF–7GHz Wideband Low Power Active Mixer	RECOMMENDED FOR NEW DESIGNS	Downconverting Mixer, Upconverting Mixer	0	7G	0	9G	0	7G	1
ADMV1012	17.5 GHz to 24 GHz, GaAs, MMIC, I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	Downconverters/Receivers, I/Q Downconverters/Receivers	17.5G	24G	7G	13.5G	2.5G	3.5G	15

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
ADMV1010	12.6 GHz to 15.4 GHz, GaAs, MMIC, I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	Downconverters/Receivers, I/Q Downconverters/Receivers	12.6G	15.4G	9G	12.6G	2.7G	3.5G	15
ADMV1009	12.7 GHz to 15.4 GHz, GaAs, MMIC, Upper Sideband, Differential Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	12.7G	15.4G	9G	12.6G	2.8G	4G	21
ADMV1011	17 GHz to 24 GHz, GaAs, MMIC, I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	Block Upconverter, IQ Upconverters/Transmitters	17.5G	23.8G	8G	12G	2G	4G	21
HMC6505A	5.5 GHz to 8.6 GHz, GaAs, MMIC, I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	5.6G	8.6G	2.5G	11.6G	0	3G	15
LTC5552	3GHz to 20GHz Microwave Mixer with Wideband DC to 6GHz IF	RECOMMENDED FOR NEW DESIGNS	Downconverting Mixer, Upconverting Mixer	3G	20G	1G	20G	0	6G	-10.8
HMC8191-Die	6 GHz to 26.5 GHz, Wideband I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	6G	26.5G	6G	26.5G	0	5G	-9.5
HMC8191LC4	6 GHz to 26.5 GHz, Wideband I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	6G	26.5G	6G	26.5G	0	5G	-9
LTC5553	3GHz to 20GHz Microwave Mixer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	3G	20G	1G	20G	500M	9G	-11.6
HMC8108	9 GHz to 10 GHz, X-Band, GaAs, MMIC, Low Noise Converter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	9G	10G	9G	10G	20M	1G	13
HMC219B	2.5 GHz to 7.0 GHz GaAs, MMIC Fundamental Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	2.5G	7G	2.5G	7G	0	3G	-9
HMC6789B	GaAs MMIC I/Q Downconverter 37 - 44 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	37G	44G	16.5G	24G	0	4G	14
HMC558A-Die	5.5 GHz to 14 GHz, GaAs MMIC Fundamental Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	5.5G	14G	5.5G	14G	0	6G	-9
HMC558ALC3B	5.5 GHz to 14 GHz, GaAs MMIC Fundamental Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	5.5G	14G	5.5G	14G	0	6G	-9

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC520A	6 GHz to 10 GHz, GaAs, MMIC, I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	6G	10G	6G	10G	0G	3.5G	-8
LTC5566	300MHz to 6GHz Dual Programmable Gain Downconverting Mixer	PRODUCTION	Downconverting Mixer	300M	6G	150M	6G	1M	500M	10.6
HMC787A-Die	GaAs, MMIC, Fundamental Mixer, 3 GHz to 10 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	3G	10G	3G	10G	0	4G	-8
HMC787ALC3B	GaAs, MMIC, Fundamental Mixer, 3 GHz to 10 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	3G	10G	3G	10G	0	4G	-9
HMC412B	Double-Balanced Mixer 8 - 16 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	9G	15G	8G	15G	0	2.5G	-8.4
HMC7584	E-Band Upconverter SiP 71 - 76 GHz	NOT RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	71G	76G	11.8G	12.7G	0	2G	34
HMC7585	E-Band Upconverter SiP 81 - 86 GHz	NOT RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	81G	86G	13.4G	14.6G	0	2G	32
HMC8326	E-Band Low Noise Downconverter SiP 71 - 76 GHz	NOT RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	71G	76G	11.5G	13G	0	2G	12
HMC8327	E-Band Low Noise Downconverter SiP 81 - 86 GHz	NOT RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, Microwave and mmWave Tx/Rx	81G	86G	13.2G	14.6G	0	2G	8.5
HMC7911	17.0 GHz to 20.0 GHz, GaAs, MMIC, I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	17G	20G	8.5G	11.6G	0	3.5G	18
HMC7912	21 GHz to 24 GHz, GaAs, MMIC, I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	21G	24G	8.75G	14G	0	3.5G	14

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
ADRF6780	5.9 GHz to 23.6 GHz, Wideband, Microwave Upconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Modulators, IQ Upconverters/Transmitters	5.9G	23.6G	5.4G	14G	0.8G	3.5G	13
HMC7586	71 GHz to 76 GHz, E-Band I/Q Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	71G	76G	11.83G	14.33G	0	10G	12.5
HMC7587	E-Band I/Q Downconverter, 81 GHz to 86 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	81G	86G	11.83G	14.33G	0	10G	10
HMC8118	71 GHz to 76 GHz, E-Band I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	71G	76G	11.83G	14.33G	0	10G	11
HMC8119	81 GHz to 86 GHz, E-Band I/Q Upconverter	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	81G	86G	11.83G	14.33G	0	10G	10
LTC5548	2GHz to 14GHz Microwave Mixer with Wideband DC–6GHz IF	PRODUCTION	Downconverting Mixer, Upconverting Mixer	2G	14G	1G	12G	0	6G	-8.5
HMC1190A	Broadband High IP3 Dual Channel Downconverter w/ Fractional-N PLL & VCO, 0.7 - 3.8 GHz	LAST TIME BUY	Mixer w/ Integrated LO	700M	3.8G	-	4G	50M	350M	8.9
HMC557A	GaAs, MMIC Fundamental Mixer, 2.5 GHz to 7.0 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	2.5G	7G	2.5G	7G	0	3G	-7
HMC951B	I/Q Downconverter SMT, 5.6 - 8.6 GHz	RECOMMENDED FOR NEW DESIGNS	Downconverters/Receivers, I/Q Downconverters/Receivers	5.6G	8.6G	4.5G	12.1G	0	3.5G	13
LTC5549	2GHz to 14GHz Microwave Mixer with Integrated LO Frequency Doubler	PRODUCTION	Downconverting Mixer, Upconverting Mixer	2G	14G	1G	12G	500M	6G	-10.8
LTC5576	3GHz to 8GHz High Linearity Active Upconverting Mixer	PRODUCTION	Upconverting Mixer	3G	8G	1G	8G	30M	6G	-0.6
ADRF6658	Wideband, Dual Rx Mixers with Integrated IF Amplifiers	RECOMMENDED FOR NEW DESIGNS	Mixer w/ Integrated LO	690M	3.8G	690M	4.1G	10M	520M	26.5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
LTC5577	300MHz to 6GHz High Signal Level Active Downconverting Mixer	PRODUCTION	Downconverting Mixer	300M	6G	300M	6G	1M	1.5G	0.7
LTC5551	300MHz to 3.5GHz Ultra-High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	300M	3.5G	200M	3.5G	5M	1G	2.4
LTC5510	1MHz to 6GHz Wideband High Linearity Active Mixer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	1M	6G	1M	6G	1M	6G	1.1
LTC5567	300MHz to 4GHz Active Downconverting Mixer with Wideband IF	PRODUCTION	Downconverting Mixer	300M	4G	300M	4.5G	5M	2.5G	1.9
LTC5544	4GHz to 6GHz High Dynamic Range Downconverting Mixer	LAST TIME BUY	Downconverting Mixer	4G	6G	4.2G	5.8G	5M	1G	7.4
MAX2042A	SiGe, High-Linearity, 1600MHz to 3900MHz Upconversion/Downconversion Mixer with LO Buffer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	1.6G	3.9G	1.3G	4G	50M	500M	-7.2
LTC5569	300MHz to 4GHz 3.3V Dual Active Downconverting Mixer	PRODUCTION	Downconverting Mixer	300M	4G	350M	4.5G	100k	1.6G	2
LTC5592	Dual 1.6GHz to 2.7GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	1.6G	2.7G	1.5G	2.5G	5M	500M	8.3
LTC5590	Dual 600MHz to 1.7GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	600M	1.7G	700M	1.5G	5M	500M	8.7
LTC5593	Dual 2.3GHz to 4.5GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	2.3G	4G	2.1G	3.8G	5M	600M	8.4
LTC5591	Dual 1.3GHz to 2.3GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	1.3G	2.3G	1.4G	2.1G	5M	500M	8.5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
LTC5540	600MHz to 1.3GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	600M	1.3G	700M	1.2G	5M	500M	7.9
LTC5543	2.3GHz to 4GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	2.2G	4G	2.4G	3.6G	5M	600M	8.4
MAX2044	SiGe, High-Linearity, 2300MHz to 4000MHz Upconversion/Downconversion Mixer with LO Buffer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	2.3G	4G	2.6G	4.3G	50M	500M	-7.7
LTC5541	1.3GHz to 2.3GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	1.3G	2.3G	1.4G	2G	5M	500M	7.8
LTC5542	1.6GHz to 2.7GHz High Dynamic Range Downconverting Mixer	PRODUCTION	Downconverting Mixer	1.6G	2.7G	1.7G	2.5G	5M	500M	8
ADRF6603	1100 MHz to 3200 MHz Rx Mixer with Integrated Fractional-N PLL and VCO	LAST TIME BUY	Mixer w/ Integrated LO	1.1G	3.2G	2.1G	2.6G	0	500M	-1
LT5578	0.4GHz to 2.7GHz High Linearity Upconverting Mixer	PRODUCTION	Upconverting Mixer	400M	2.7G	400M	3G	100k	600M	-0.7
MAX2051	SiGe, High-Linearity, 850MHz to 1550MHz Up/Downconversion Mixer with LO Buffer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	850M	1.55G	1.2G	2.25G	50M	1G	-7.4
ADL5801	High IP3, 10 MHz TO 6 GHz, Active Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	10M	6G	10M	6G	1M	600M	1.8
MAX19995A	Dual, SiGe, High-Linearity, 1700MHz to 2200MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.7G	2.2G	1.75G	2.7G	50M	500M	8.7

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
MAX19995	Dual, SiGe, High-Linearity, 1700MHz to 2200MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.7G	2.2G	1.4G	2G	50M	500M	9
MAX19997A	Dual, SiGe High-Linearity, High-Gain, 1800MHz to 2900MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.8G	2.9G	1.95G	3.4G	50M	500M	8.7
ADL5802	Dual Channel High IP3 100 MHz TO 6 GHz Active Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	100M	6G	100M	6G	1M	600M	1.5
MAX19996	SiGe, High-Linearity, High-Gain, 2000MHz to 3000MHz Downconversion Mixer with LO Buffer	PRODUCTION	Downconverting Mixer	2G	3G	1.8G	2.55G	50M	500M	8.7
MAX19985A	Dual, SiGe, High-Linearity, High-Gain, 700MHz to 1000MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	700M	1G	900M	1.3G	50M	500M	8.7
LT5579	1.5GHz to 3.8GHz High Linearity Upconverting Mixer	PRODUCTION	Upconverting Mixer	1.5G	3.9G	750M	4.3G	100k	1G	-0.5
MAX2029	High-Linearity, 815MHz to 1000MHz Upconversion/Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer, Upconverting Mixer	815M	1G	570M	900M	0	250M	-6.5
ADL5350	LF to 4 GHz, High Linearity Y-Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	1M	4G	500M	4G	1M	4G	-6.7
MAX9985	Dual, SiGe, High-Linearity, 700MHz to 1000MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	700M	1G	570M	865M	50M	250M	6
LT5557	400MHz to 3.8GHz 3.3V High Linearity Downconverting RF Mixer	PRODUCTION	Downconverting Mixer	400M	3.8G	380M	4.2G	100k	600M	2.9

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
AD8342	Active Receive Mixer LF to 3 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	1M	3.8G	-	4.1G	0	2.4G	3.7
AD8343	DC-to-2.5 GHz High IP3 Active Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	0	2.5G	-	2.5G	0	2.5G	7
AD8344	Active Receive Mixer 400 MHz to 1.2 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	400M	1.2G	470M	1.6G	70M	400M	4.5
LT5560	0.01MHz to 4GHz Low Power Active Mixer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	0	4G	0	4G	0	4G	2.4
MAX2041	High-Linearity, 1700MHz to 3000MHz Upconversion/Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer, Upconverting Mixer	1.7G	3G	1.9G	3G	0	350M	-7.1
MAX9986A	SiGe High-Linearity, 815MHz to 1000MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	815M	1G	960M	1.18G	50M	250M	8.2
AD831	High-Performance, Low Distortion 500 MHz Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	0	500M	-	500M	0	200M	0
MAX2031	High-Linearity, 650MHz to 1000MHz Upconversion/Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer, Upconverting Mixer	815M	1G	650M	1.25G	0	250M	-7
MAX9984	SiGe High-Linearity, 400MHz to 1000MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	400M	1G	325M	850M	50M	250M	8.1
LT5527	400MHz to 3.7GHz High Signal Level Downconverting Mixer	PRODUCTION	Downconverting Mixer	400M	3.7G	380M	3.5G	100k	600M	2.3
MAX9996	SiGe High-Linearity, 1700MHz to 2200MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.7G	2.2G	1.9G	2.4G	40M	350M	8.3
LT5525	High Linearity, Low Power Downconverting Mixer	PRODUCTION	Downconverting Mixer	800M	2.5G	500M	3G	100k	1G	-1.9

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
MAX9994	SiGe High-Linearity, 1400MHz to 2200MHz Downconversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.4G	2.2G	1.4G	2G	40M	350M	8.3
LT5526	High Linearity, Low Power Downconverting Mixer	PRODUCTION	Downconverting Mixer	100k	2G	100k	2.5G	100k	1G	0.4
LT5521	Very High Linearity Active Mixer	PRODUCTION	Upconverting Mixer	10M	3.7G	10M	4G	10M	3G	-0.5
LT5519	0.7GHz to 1.4GHz High Linearity Upconverting Mixer	PRODUCTION	Upconverting Mixer	700M	1.4G	300M	1.8G	1M	400M	-0.6
LT5520	1.3GHz to 2.3GHz High Linearity Upconverting Mixer	PRODUCTION	Upconverting Mixer	1.3G	2.3G	900M	2.7G	0	400M	-1
LT5522	600MHz to 2.7GHz High Signal Level Downconverting Mixer	PRODUCTION	Downconverting Mixer	400M	2.7G	400M	2.7G	100k	1G	-0.1
MAX9993	High-Linearity 1700MHz to 2200MHz Down-Conversion Mixer with LO Buffer/Switch	PRODUCTION	Downconverting Mixer	1.7G	2.2G	1.4G	2G	40M	350M	8.5
LT5512	1kHz-3GHz High Signal Level Active Mixer	PRODUCTION	Downconverting Mixer	1k	3G	1k	3G	1k	2G	1
LT5511	High Signal Level Upconverting Mixer	LAST TIME BUY	Upconverting Mixer	10M	3G	30M	2.7G	1M	300M	-0.7
MAX2680	400MHz to 2.5GHz, Low-Noise, SiGe Downconverter Mixers	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	400M	2.5G	10M	500M	11.6
MAX2681	400MHz to 2.5GHz, Low-Noise, SiGe Downconverter Mixers	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	400M	2.5G	10M	500M	14.2
MAX2682	400MHz to 2.5GHz, Low-Noise, SiGe Downconverter Mixers	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	400M	2.5G	10M	500M	14.7

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
MAX2660	400MHz to 2.5GHz Upconverters	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	600M	2.5G	40M	500M	7
MAX2661	400MHz to 2.5GHz Upconverters	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	600M	2.5G	40M	500M	10.7
MAX2671	400MHz to 2.5GHz Upconverters	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	600M	2.5G	40M	500M	11.2
MAX2673	400MHz to 2.5GHz Upconverters	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	600M	2.5G	40M	500M	12.3
MAX2690	Low-Noise, 2.5GHz Downconverter Mixer	PRODUCTION	Downconverting Mixer, Upconverting Mixer	400M	2.5G	700M	2.5G	10M	500M	7.9
ADMFM2001	7 GHz to 30 GHz, 2 Channel, Microwave Upconverter	PRE-RELEASE	Frequency Converter SIP	500M	32G	-	-	-	-	-
ADMV1018	24.0 GHz to 29.5 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	5G	15G	-	-	-
ADMV1128A	24 GHz to 29.5 GHz, 5G, Microwave Upconverter and Downconverter	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers, IQ Upconverters/Transmitters, Microwave and mmWave Tx/Rx	24G	29.5G	5G	15G	-	-	-
HMC-MDB169	GaAs MMIC Fundamental Mixer, 54 - 64 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	54G	64G	54G	64G	0	5G	-8
HMC-MDB171	GaAs MMIC I/Q Mixer 35 - 45 GHz	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	35G	45G	35G	45G	0	5G	-12.5
HMC-MDB172	GaAs MMIC I/Q Mixer 19 - 33 GHz	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	19G	33G	19G	33G	0	5G	-8
HMC-MDB218	GaAs MMIC Sub-Harmonic IRM Mixer, 54 - 64 GHz	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	54G	64G	27G	32G	0	3G	-12.5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC-MDB277	GaAs MMIC Fundamental Mixer, 70 - 90 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	70G	90G	70G	90G	0	18G	-12
HMC1056	GaAs MMIC I/Q Mixer, 8 - 12 GHz	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	8G	12G	8G	12G	0	4G	-8
HMC1057	GaAs MMIC Sub-Harmonic I/Q Mixer, 71 - 86 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	71G	86G	29G	43G	0	12G	-12
HMC1058	GaAs MMIC Sub-Harmonic Mixer, 71 - 86 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	71G	86G	29G	43G	0	12G	-11
HMC1063	GaAs MMIC I/Q Mixer, 24 - 28 GHz	RECOMMENDED FOR NEW DESIGNS	IQ and Image Reject	24G	28G	21G	28G	0	3G	-9.5
HMC1065	GaAs MMIC I/Q Downconverter, 27 - 34 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	27G	34G	11.5G	19G	0	4G	12
HMC1081	GaAs MMIC Mixer, 50 - 75 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	50G	75G	40G	85G	0	26G	-7.5
HMC1093	GaAs MMIC Sub Harmonic Mixer, 37 - 46.5 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	37G	46.5G	8.5G	11G	0	7.5M	-11
HMC1106-Die	GaAs MMIC Mixer, 15 - 36 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	15G	36G	20G	50G	0	24G	-11
HMC1113	GaAs MMIC I/Q Downconverter, 10 - 16 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	10G	16G	-	16G	0	3.5G	12
HMC129ALC4	4 GHz to 8 GHz GaAs MMIC Double-Balanced Mixer	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	4G	8G	4G	8G	0	3G	-7
HMC218B	GaAs MMIC DBL-BAL Mixer, 3.5 - 8 GHz	RECOMMENDED FOR NEW DESIGNS	Single, Double & Triple Balanced Mixers	3.5G	8G	3.5G	8G	0	1.6G	-7
HMC264-Die	Sub-Harmonic Mixer Chip, 20 - 32 GHz	PRODUCTION	Sub-Harmonic Mixers	20G	32G	12G	16G	0	6G	-10
HMC264LC3B	Sub Harmonic Mixer SMT, 21 - 31 GHz	PRODUCTION	Sub-Harmonic Mixers	21G	31G	10.5G	15.5G	0	6G	-9

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC264LM3	Sub-Harmonic Mixer SMT, 20 - 30 GHz	PRODUCTION	Sub-Harmonic Mixers	20G	30G	10G	15G	0	4G	-9
HMC265-Die	Sub-Harmonic Mixer Chip, 20 - 32 GHz	PRODUCTION	Sub-Harmonic Mixers	20G	32G	10G	16G	0.7G	3G	-3
HMC265LM3	Sub-Harmonic Mixer SMT, 20 - 31 GHz	PRODUCTION	Sub-Harmonic Mixers	20G	32G	10G	16G	700M	3G	3
HMC292ALC3B	14 GHz to 30 GHz, GaAs, MMIC, Double Balanced Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	14G	30G	14G	30G	0	8G	-9
HMC337	GaAs MMIC Sub Harmonic Mixer Chip, 17 - 25 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	17G	25G	8.5G	12G	0	3G	-9
HMC338-Die	GaAs MMIC Sub Harmonic Mixer Chip, 26 - 33 GHz	PRODUCTION	Sub-Harmonic Mixers	26G	33G	13G	16.5G	0	2.5G	-9
HMC338LC3B	Sub Harmonic Mixer SMT, 24 - 34 GHz	PRODUCTION	Sub-Harmonic Mixers	24G	34G	11.5G	16.5G	0	3G	-11
HMC339	GaAs MMIC Sub Harmonic Mixer Chip, 33 - 42 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	33G	42G	16.5G	21G	0	3G	-10
HMC404	GaAs MMIC Sub Harmonic IRM Mixer Chip, 26 - 33 GHz	RECOMMENDED FOR NEW DESIGNS	Sub-Harmonic Mixers	26G	33G	13G	16.5G	0	3G	-11
HMC570-Die	GaAs MMIC I/Q Receiver Chip, 17 - 21 GHz	PRODUCTION	I/Q Downconverters/Receivers	17G	21G	7G	-	0G	3.5G	10
HMC570LC5	I/Q Receiver SMT, 17 - 21 GHz	PRODUCTION	I/Q Downconverters/Receivers	17G	21G	7G	12G	0	3.5G	10
HMC571-Die	GaAs MMIC I/Q Receiver Chip, 21 - 25 GHz	PRODUCTION	I/Q Downconverters/Receivers	21G	25G	9G	-	0G	3.5G	11
HMC571LC5	I/Q Receiver SMT, 21 - 25 GHz	PRODUCTION	I/Q Downconverters/Receivers	21G	25G	9G	14G	0	3.5G	11
HMC572-Die	GaAs MMIC I/Q Receiver Chip, 24 - 28 GHz	PRODUCTION	I/Q Downconverters/Receivers	24G	28G	9G	-	0G	3.5G	8

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC572LC5	I/Q Receiver SMT, 24 - 28 GHz	PRODUCTION	I/Q Downconverters/Receivers	24G	28G	9G	-	0	3.5G	8
HMC6146B	GaAs MMIC I/Q Upconverter, 40 - 44 GHz	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	40G	44G	18G	22G	0	4G	11
HMC6147A	GaAs MMIC I/Q Downconverter, 37 - 44 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	37G	44G	16.5G	22G	0	4G	13
HMC666	SMT BiCMOS Mixer with Integrated LO Amplifier, 3.1 - 3.9 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	3.1G	3.9G	2.8G	3.6G	0	800M	-9
HMC6787A	GaAs MMIC I/Q Upconverter, 37 - 40 GHz	RECOMMENDED FOR NEW DESIGNS	IQ Upconverters/Transmitters	37G	40G	16.5G	22G	0	4G	10
HMC682	High IP3 Dual Downconverter SMT, with LO Switch, 1.7 - 2.2 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	1.7G	2.2G	1.4G	2G	60M	400M	6
HMC683	High IP3 Dual Downconverter SMT, w/LO Switch, 0.7 - 1.0 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	700M	1G	570M	900M	60M	500M	7.5
HMC684	BiCMOS Mixer w/Integrated LO Amplifier, 700 - 1000 MHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	700M	1G	600M	1G	0	450M	-7
HMC685	BiCMOS Mixer w/Integrated LO Amplifier, 1.7 - 2.2 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	1.7G	2.2G	1.5G	2.2G	0	500M	-8
HMC686	BiCMOS Mixer w/Integrated LO Amplifier, 700 - 1500 MHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	700M	1.5G	850M	1.5G	0	500M	-7.5
HMC687	BiCMOS MMIC Mixer w/Integrated LO Amplifier, 1.7 - 2.2 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	1.7G	2.2G	1.7G	2.4G	0	500M	-8
HMC688	BiCMOS MMIC Mixer w/ Integrated LO Amplifier, 2.0 - 2.7 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	2G	2.7G	1.7G	2.4G	0	700M	-7.5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Freq Response LO ^{min}	Freq Response LO ^{max}	Freq Response IF ^{min}	Freq Response IF ^{max}	Conversion Gain
HMC689	BiCMOS MMIC Mixer w/Integrated LO Amplifier, 2.0 - 2.7 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	2G	2.7G	2G	3G	0	800M	-7.5
HMC773ALC3B	6 GHz to 26 GHz, GaAs MMIC Fundamental Mixer	PRODUCTION	Single, Double & Triple Balanced Mixers	6G	26G	6G	26G	0	8G	-9
HMC785	BiCMOS Mixer with Integrated LO Amplifier, 1.7 - 2.2 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	1.7G	2.2G	1.5G	2.2G	50M	300M	-8
HMC786	BiCMOS Mixer with Integrated LO Amplifier, 0.7 - 1.1 GHz	LAST TIME BUY	Single, Double & Triple Balanced Mixers	700M	1.1G	750M	1.35G	50M	250M	-7.5
HMC8193	2.5 GHz to 8.5 GHz I/Q Mixer	RECOMMENDED FOR NEW DESIGNS	I/Q and Image Reject Modules, IQ and Image Reject	2.5G	8.5G	2.5G	8.5G	0	4G	9
HMC904	GaAs MMIC I/Q Downconverter, 17 - 24 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	17G	24G	7.5G	12.3G	0	3.5G	12
HMC966	I/Q Downconverter SMT, 17 - 20 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	17G	20G	7.5G	11.75G	0	3.5G	14
HMC967	I/Q Downconverter SMT, 21 - 24 GHz	RECOMMENDED FOR NEW DESIGNS	I/Q Downconverters/Receivers	21G	24G	8.8G	13.5G	0	3.5G	15

RF Power Detectors

Parts	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response ^{min} RF	Freq Response ^{max} RF	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
ADL5960	10 MHz to 20 GHz Integrated Vector Network Analyzer Front End	RECOMMENDED FOR NEW DESIGNS	Vector Power Measurement	1	10M	20G	95	-	1G	-	225m	4.75	5.25
ADA4355	Programmable Transimpedance, Current to Bits Receiver μ Module	RECOMMENDED FOR NEW DESIGNS	Signal Chain μ Module Receivers	1	-	-	-	-	-	-	-	3.1	3.6
LTC5597	100MHz to 70GHz Linear-in-dB RMS Power Detector with 35dB Dynamic Range	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	100M	70G	35	1	42G	-	33.5m	2.7	3.6
ADL6012	2 GHz to 67 GHz, 500 MHz Bandwidth Envelope Detector	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors	1	2G	67G	40	1	18G	-	28.6m	3.15	5.25
RH5596S	100MHz to 40GHz Linear-in-dB RMS Power Detector with 35dB Dynamic Range	RECOMMENDED FOR NEW DESIGNS	RF RMS Detector	1	100M	40G	35	1.25	-	-	30m	2.7	3.5
ADL6010S	Aerospace ADL6010S Fast Responding, 45 dB Range, 0.5 GHz TO 43.5 GHz Envelope Detector	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors	1	500M	43.5G	45	0.3	-	-	3m	4.78	5.25
LTC5596	100MHz to 40GHz Linear-in-dB RMS Power Detector with 35dB Dynamic Range	RECOMMENDED FOR NEW DESIGNS	RF RMS Detector	1	100M	40G	35	1.25	40G	-25	30m	2.7	3.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response _{min} RF	Freq Response _{max} RF	Input Dynamic Range _{typ}	Temp Drift _{typ}	Specified at Freq	Pin Test Level	Is _{typ}	Vs+ _{min}	Vs+ _{max}
ADL5506	30 MHz to 4.5 GHz, 45 dB RF Detector	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	30M	4.5G	45	1	900M	-10	3.75m	2.5	5.5
ADL5903	200 MHz to 6 GHz 35 dB TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	200M	6G	35	0.2	900M	-10	2.5m	3	5.25
ADL6010	Fast Responding, 45 dB Range, 0.5 GHz to 43.5 GHz Envelope Detector	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors	1	500M	43.5G	45	0.3	10G	-10	3m	4.78	5.25
ADL5501S	Aerospace 50 MHz TO 6 GHz TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	50M	6G	30	0.1	900M	5	1.1m	2.7	5.5
ADL5906	10 MHz TO 10 GHz 67 dB TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	10M	10G	67	1	900M	-10	70m	4.75	5.25
ADL5513S	Aerospace 1 MHz to 4 GHz, 80 dB Logarithmic Detector/Controller	RECOMMENDED FOR NEW DESIGNS	RF Log Detector	1	1M	4G	80	0.5	900M	-10	31m	2.7	5.5
AD8306S	Aerospace 5 - 400 MHz, 100 dB High Precision Limiting - Logarithmic Amplifier	RECOMMENDED FOR NEW DESIGNS	RF Log Detector	1	5M	400M	100	-	10M	0	-	2.7	6.5
ADL5511	DC to 6 GHz ENVELOPE AND TruPwr™ RMS Detector	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors, RMS Responding Detector	1	0	6G	47	0.1	900M	10	21.5m	4.75	5.25
LTC5564	UltraFast™ 7ns Response Time 15GHz RF Power Detector with Comparator	PRODUCTION	RF Schottky Peak Detector	1	600M	15G	40	2	5.8G	5	44m	3.1	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
LTC5583	Matched Dual-Channel 6GHz RMS Power Detector	PRODUCTION	RF RMS Detector	2	40M	6G	60	0.5	2.14G	-45	80.5m	3.1	3.5
LTC5587	6 GHz RMS Power Detector with Digital Output	PRODUCTION	RF RMS Detector	1	10M	6G	40	1	2.14G	-	3m	2.7	3.6
LTC5582	40MHz to 10GHz RMS Power Detector with 57dB Dynamic Range	PRODUCTION	RF RMS Detector	1	40M	10G	57	0.5	2.14G	-45	41.6m	3.1	3.5
ADL5505	450 MHz TO 6000 MHz TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	450M	6G	36	0.1	900M	10	1.8m	2.5	3.3
ADL5504	450 MHz TO 6000 MHz TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	450M	6G	35	0.1	900M	10	1.8m	2.5	3.3
ADL5902	50 MHz TO 9 GHz 65 dB TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	50M	9G	65	0.5	900M	-10	73m	4.5	5.5
LT5581	6GHz RMS Power Detector with 40dB Dynamic Range	PRODUCTION	RF RMS Detector	1	10M	6G	40	1	2.14G	-	1.4m	2.7	6
ADL5502	450 MHz TO 6000 MHz Crest Factor Detector	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors, RMS Responding Detector	1	450M	6G	35	0.1	900M	10	3m	2.5	3.3
ADL5513	1 MHz TO 4 GHz, 80 dB Logarithmic Detector / Controller	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	1M	4G	80	0.5	900M	-10	31m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
LT5538	40MHz to 3.8GHz RF Power Detector with 75dB Dynamic Range	PRODUCTION	RF Log Detector	1	40M	3.8G	75	0.5	2.14G	-35	29m	3	5.25
AD8363	50 Hz TO 6 GHz 50 dB TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	1	50	6G	60	0.5	900M	-10	60m	4.5	5.5
ADL5501	50 MHz TO 6 GHz TruPwr™ Detector	PRODUCTION	RMS Responding Detector	1	50M	6G	30	0.1	900M	5	1.1m	2.7	5.5
AD8317	1 MHz to 10 GHz, 55 dB Log Detector/Controller	PRODUCTION	non-RMS Responding Detector	1	1M	10G	55	0.5	0.9M	-10	22m	3	5.5
MAX9930	2MHz to 1.6GHz 45dB RF-Detecting Controllers and RF Detector	PRODUCTION	RF Log Detector	1	2M	1.6G	45	-	-	-	7m	2.7	5.25
MAX9931	2MHz to 1.6GHz 45dB RF-Detecting Controllers and RF Detector	PRODUCTION	RF Log Detector	1	2M	1.6G	45	-	-	-	7m	2.7	5.25
MAX9932	2MHz to 1.6GHz 45dB RF-Detecting Controllers and RF Detector	PRODUCTION	RF Log Detector	1	2M	1.6G	45	-	-	-	7m	2.7	5.25
MAX9933	2MHz to 1.6GHz 45dB RF-Detecting Controllers and RF Detector	PRODUCTION	RF Log Detector	1	2M	1.6G	45	-	-	-	7m	2.7	5.25
ADL5519	1 MHz TO 10 GHz, 62 dB Dual Log Detector / Controller	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	2	1M	10G	62	0.5	0.9M	-10	60m	3.3	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
AD8362	50 Hz to 3.8 GHz 65d dB TruPwr™ Detector	PRODUCTION	RMS Responding Detector	1	50	3.8G	65	1	900M	0	20m	4.5	5.5
MAX2204	RF Power Detector	PRODUCTION	Envelope/Peak Detectors	1	450M	2.5G	21	-	-	-	1.2m	2.7	3.3
AD8318	1 MHz TO 8 GHz, 70 dB Logarithmic Detector/Controller	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	1M	8G	70	0.5	0.9M	-10	68m	4.5	5.5
AD8319	1 MHz TO 10 GHz, 40 dB Log Detector / Controller	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	1M	10G	45	0.5	0.9M	-10	22m	3	5.5
AD8307	Low Cost, DC to 500 MHz, 92 dB Logarithmic Amplifier	PRODUCTION	non-RMS Responding Detector	1	0	500M	92	1	100M	0	8m	2.7	5.5
AD8313	0.1 GHz TO 2.5 GHz, 70 dB Logarithmic Detector / Controller	PRODUCTION	non-RMS Responding Detector	1	100M	2.5G	70	1.25	900M	-10	13.7m	2.7	5.5
AD8314	RF Detector / Controller, 100 MHz TO 2.7 GHz, 45 dB	PRODUCTION	non-RMS Responding Detector	1	100M	2.7G	45	1	900M	-10	4.5m	2.7	5.5
AD8315	50 dB GSM PA Controller	PRODUCTION	non-RMS Responding Detector	1	100M	2.5G	50	1	-	-	8.5	2.7	5.5
ADL5500	100 MHz TO 6 GHz TruPwr™ Detector	PRODUCTION	RMS Responding Detector	1	100M	6G	30	0.25	900M	2.5	1m	2.7	5.5
MAX2014	50MHz to 1000MHz, 75dB Logarithmic Detector/Controller	PRODUCTION	RF Log Detector	1	50M	1G	75	-	-	-	17.3m	2.7	5.25

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
AD8361	LF to 2.5 GHz TruPwr™ Detector	PRODUCTION	RMS Responding Detector	1	0	2500M	30	0.25	900M	5	1.1m	2.7	5.5
AD640	DC-Coupled Demodulating 120 MHz Logarithmic Amplifier	PRODUCTION	non-RMS Responding Detector	1	0	120M	50	1	-	-	35m	4.5	7.5
AD641	250 MHz Demodulating Logarithmic Amplifier	PRODUCTION	non-RMS Responding Detector	1	0	250M	44	1	-	-	35m	4.5	7.5
AD8310	Fast, Voltage-Out, DC to 440 MHz, 95 dB Logarithmic Amplifier	PRODUCTION	non-RMS Responding Detector	1	0	440M	95	1	100M	0	8m	2.7	5.5
LTC5530	Precision 300MHz to 7GHz RF Detector with Shutdown and Gain Adjustment	PRODUCTION	RF Schottky Peak Detector	1	300M	7G	42	1.2	5G	-	500μ	2.7	6
LTC5531	Precision 300MHz to 7GHz RF Detector with Shutdown and Offset Adjustment	PRODUCTION	RF Schottky Peak Detector	1	300M	7G	42	1.2	5G	-	500μ	2.7	6
LTC5535	Precision 600MHz to 7GHz, RF Detector with Adjustable Gain and 12MHz Baseband Bandwidth	PRODUCTION	RF Schottky Peak Detector	1	600M	7G	42	1	5G	-	2m	2.7	5.5
AD8311	50 dB GSM PA Controller	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	100M	2.5G	50	0.5	-	-	7.6m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
LT5537	Wide Dynamic Range RF/IF Log Detector	PRODUCTION	RF Log Detector	1	0	1G	83	0.63	200M	-20	13.5m	2.7	5.25
AD8312	50 MHz TO 3.5 GHz, 45 dB RF Detector	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	50M	3.5G	45	0.5	900M	-10	4.2m	2.7	5.5
AD8306	5 MHz TO 400 MHz, 100 dB High Precision Limiting - Logarithmic Amplifier	PRODUCTION	non-RMS Responding Detector	1	5M	400M	100	1	10M	0	16m	2.7	6.5
AD8309	5 MHz TO 500 MHz, 100 dB Demodulating Logarithmic Amplifier with Limiter Output	PRODUCTION	non-RMS Responding Detector	1	5M	500M	100	1	100M	0	16m	2.7	6.5
AD8364	LF to 2.7 GHz, DUAL 60 dB TruPwr™ Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector	2	0	2.7G	60	0.5	900M	-10	70m	4.5	5.5
LTC5533	300MHz to 11GHz Precision Dual RF Power Detector	PRODUCTION	RF Schottky Peak Detector	2	300M	11G	40	1	5G	-	900μ	2.7	6
LTC5536	600MHz to 7GHz Precision RF Detector with Fast Comparator Output	PRODUCTION	RF Schottky Peak Detector	1	600M	7G	38	1	7G	4	2.1m	2.7	5.5
MAX2016	LF-to-2.5GHz Dual Logarithmic Detector/Controller for Power, Gain, and VSWR Measurements	PRODUCTION	RF Log Detector	2	-	2.5G	80	-	-	-	43m	2.7	5.25

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
AD8302	LF–2.7 GHz RF/IF Gain and Phase Detector	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector, Vector Power Measurement	1	0	2.7G	60	1	900M	-30	19m	2.7	5.5
LT5534	50MHz to 3GHz RF Power Detector with 60dB Dynamic Range	PRODUCTION	RF Log Detector	1	50M	3G	60	0.75	1.9G	-30	7m	2.7	5.25
MAX2015	0.1GHz to 3GHz, 75dB Logarithmic Detector/Controller	PRODUCTION	RF Log Detector	1	100M	3G	75	-	-	-	17.3m	2.7	5.25
LTC5532EDC	Precision 300MHz to 7GHz RF Detector with Gain and Offset Adjustment	PRODUCTION	RF Schottky Peak Detector	1	300M	12G	42	1.2	5G	-	500μ	2.7	6
LTC5532ES6	Precision 300MHz to 7GHz RF Detector with Gain and Offset Adjustment	PRODUCTION	RF Schottky Peak Detector	1	300M	7G	42	1.2	5G	-	500μ	2.7	6
LTC5509	300MHz to 3GHz RF Power Detector in SC70 Package	PRODUCTION	RF Schottky Peak Detector	1	300M	3G	36	0.5	1.85G	-	580μ	2.7	6
LTC5508	300MHz to 7GHz RF Power Detector with Buffered Output in SC70 Package	PRODUCTION	RF Schottky Peak Detector	1	300M	7G	44	2	5G	-12	550μ	2.7	6
MAX4003	100MHz to 2500MHz, 45dB RF Detector in a UCSP	PRODUCTION	RF Log Detector	1	100M	2.5G	45	-	-	-	5.9m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response _{min} RF	Freq Response _{max} RF	Input Dynamic Range _{typ}	Temp Drift _{typ}	Specified at Freq	Pin Test Level	Is _{typ}	Vs+ _{min}	Vs+ _{max}
LTC5507	100kHz to 1GHz RF Power Detector	PRODUCTION	RF Schottky Peak Detector	1	100k	1G	48	1	1G	-10	550μ	2.7	6
MAX4000	2.5GHz 45dB RF-Detecting Controllers	PRODUCTION	RF Log Detector	1	100M	2.5G	45	-	-	-	5.9m	2.7	5.5
MAX4001	2.5GHz 45dB RF-Detecting Controllers	PRODUCTION	RF Log Detector	1	100M	2.5G	45	-	-	-	5.9m	2.7	5.5
MAX4002	2.5GHz 45dB RF-Detecting Controllers	PRODUCTION	RF Log Detector	1	100M	2.5G	45	-	-	-	5.9m	2.7	5.5
LTC5505-1	RF Power Detector with Buffered Output and >40dB Dynamic Range	PRODUCTION	RF Schottky Peak Detector	1	300M	3G	46	1	1.85G	-	500μ	2.7	6
LTC5505-2	RF Power Detector with Buffered Output and >40dB Dynamic Range	PRODUCTION	RF Schottky Peak Detector	1	300M	3.5G	44	1	1.85G	-	500μ	2.7	6
ADL5904	DC to 6 GHz, 45 dB TruPwr Detector with Envelope Threshold Detection	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors, RMS Responding Detector	1	0	6G	45	0.5	900M	10	3.5m	3.15	3.45
ADL5910	DC to 6 GHz, ≤45 dB Envelope Threshold Detector/Trigger	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors	1	0	6G	45	0.5	900M	10	3.5m	3.15	3.45
ADL5920	9 kHz to 7 GHz, Bidirectional RMS and VSWR Detector	RECOMMENDED FOR NEW DESIGNS	RMS Responding Detector, Vector Power Measurement	2	9k	7G	50	0.5	1G	-10	160m	4.9	5.1

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
HMC1010	RMS Power Detector SMT, DC - 3.9 GHz	LAST TIME BUY	RMS Responding Detector	1	0	3.9G	62	0.5	900M	0	48m	4.5	5.5
HMC1013	67 dB SMT SDLVA, 0.5 - 18.5 GHz	RECOMMENDED FOR NEW DESIGNS	SDLVA Detector	1	500M	18.5G	67	0.5	10G	0	183m	-	3.3
HMC1020	RMS Power Detector SMT, Single-Ended, DC - 3.9 GHz	LAST TIME BUY	RMS Responding Detector	1	0	3.9G	72	0.75	900M	-10	55m	4.5	5.5
HMC1021	RMS Power Detector SMT, with Envelope Tracker, DC - 3.9 GHz	LAST TIME BUY	Envelope/Peak Detectors, RMS Responding Detector	1	0	3.9G	70	0.5	900M	-10	75m	4.5	5.5
HMC1030	Dual RMS Power Detector SMT, Single-Ended, DC - 3.9 GHz	LAST TIME BUY	Envelope/Peak Detectors, RMS Responding Detector	2	0	3.9G	69	0.5	900M	-10	143m	5	5
HMC1094	50 dB, Logarithmic Detector, 1 - 23 GHz	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	1G	23G	50	0.5	10M	-10	85m	3.15	3.45
HMC1120	RMS Power Detector & Envelope Tracker, DC - 3.9 GHz	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors, RMS Responding Detector	1	0	3.9G	72	0.5	1900M	-	70m	3.15	3.45
HMC600	75 dB Logarithmic Detector/Controller SMT, 0.05 - 4.0 GHz	LAST TIME BUY	non-RMS Responding Detector	1	50M	4G	75	0.5	900M	-15	29m	2.7	5.5

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
HMC601	75dB Logarithmic Detector/Controller SMT, 10 - 4000 MHz	LAST TIME BUY	non-RMS Responding Detector	1	10M	4G	75	0.5	900M	-15	30m	4.5	5.5
HMC602	70 dB, Logarithmic Detector/Controller SMT, 1 - 8000 MHz	LAST TIME BUY	non-RMS Responding Detector	1	1M	8G	70	1	0.9M	-10	113m	4.5	5.5
HMC611LP4	Logarithmic Detector Controller SMT, 0.001 - 10.0 GHz	LAST TIME BUY	non-RMS Responding Detector	1	1M	10G	60	-	7G	-10	106m	4.5	5.5
HMC613	Successive Detection Log Video Amp., SMT 0.1 - 20 GHz	RECOMMENDED FOR NEW DESIGNS	SDLVA Detector	1	100M	20G	59	0.5	10G	-10	83m	3.15	3.45
HMC662	54 dB Logarithmic Detector, 8 - 30 GHz	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	8G	30G	54	0.5	10M	-10	88m	3.15	3.45
HMC713LP3E	54 dB, Logarithmic Detector/Controller SMT, 50 - 8000 MHz	LAST TIME BUY	non-RMS Responding Detector	1	50M	8G	54	0.5	2.7G	-	17m	2.7	5.5
HMC713MS8	54 dB, Logarithmic Detector/Controller SMT, 45 - 2700 MHz	LAST TIME BUY	non-RMS Responding Detector	1	45M	2.7G	54	-0.5	2.7G	-	17m	2.7	5.5
HMC7447	E-Band Detector, 71 - 86 GHz	RECOMMENDED FOR NEW DESIGNS	Envelope/Peak Detectors	1	71G	86G	24	0.5	81G	18	-	3	5
HMC813-Die	Successive Detection Log Video Amplifier (SDLVA) Chip, 1 - 26 GHz	PRODUCTION	SDLVA Detector	1	1G	26G	55	0.5	-	-	150m	-	-

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF ^{min}	Freq Response RF ^{max}	Input Dynamic Range ^{typ}	Temp Drift ^{typ}	Specified at Freq	Pin Test Level	Is ^{typ}	Vs+ ^{min}	Vs+ ^{max}
HMC813LC4B	Successive Detection Log Video Amplifier (SDLVA) SMT, 1 - 20 GHz	PRODUCTION	SDLVA Detector	1	1G	20G	55	0.5	10G	-10	150m	-	-
HMC909	RMS Power Detector Single-Ended SMT, DC - 5.8 GHz	LAST TIME BUY	RMS Responding Detector	1	0	5.8G	40	0.5	900M	-15	42m	4.5	5.5
HMC913-Die	Successive Detection Log Video Amplifier (SDLVA) Chip, 0.6 - 20 GHz	PRODUCTION	SDLVA Detector	1	0.6G	20G	59	1.5	18G	-30	80m	-	-
HMC913LC4B	Successive Detection Log Video Amp., SMT 0.6 - 20 GHz	PRODUCTION	SDLVA Detector	1	0.6G	20G	59	-	10G	-10	80m	-	-
HMC948	54 dB Logarithmic Detector SMT, 1 - 23 GHz	RECOMMENDED FOR NEW DESIGNS	non-RMS Responding Detector	1	1G	23G	54	0.5	10M	-10	91m	3.15	3.45

RF Predistortion Ics

Parts	Description	Product Lifecycle	Frequency Range	PA Architecture	Input Signal Bandwidth _{min}	Input Signal Bandwidth _{max}	Paths	VSUPPLY	Power Consumption	Features
SC1905	698MHz to 3800MHz RF Power Amplifier Linearizer (RFPAL)	PRODUCTION	698 to 3800	Class AB, Closed Loop, Doherty, Open Loop	5	100	-	3.3, 1.8	1280	External Reference Clock Support, Fully Adaptive Correction, Integrated RFin/RFout, Low power consumption:1450mW
SC2200	Dual RF Power Amplifier Linearizer (RFPAL)	RECOMMENDED FOR NEW DESIGNS	698 to 2700	Class AB, Doherty	1.2	60	2	1.8	2 x 950	Integrated Preamp, Scintera 4th Generation RFPAL, Single-ended RF I/Os, Up to 28dB ACLR Improvement, Up to 38dB IMD Improvement
SC1894	225MHz to 3800MHz RF Power Amplifier Linearizer (RFPAL)	RECOMMENDED FOR NEW DESIGNS	225 to 3800	Class AB, Closed Loop, Doherty	1.2	75	1	3.3, 1.8	1200	Dual-RF Power Measurement, Scintera 3rd Generation RFPAL
MAX2010	500MHz to 1100MHz Adjustable RF Predistorter	PRODUCTION	500 to 1100	Open Loop	-	-	-	5	75	Up to 12dB ACPR Improvement
MAX2009	1200MHz to 2500MHz Adjustable RF Predistorter	PRODUCTION	1200 to 2500	Open Loop	-	-	-	5	75	Up to 12dB ACPR Improvement

RF Switches

Parts	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADRF5142	High Power, 40 W Peak, Silicon SPDT, Reflective Switch, 8 GHz to 11 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon	11G	8G	1.2	40	46	11G	70	Reflective
ADRF5048	Silicon SP4T Switch, Nonreflective, 100 MHz to 45 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon	100M	45G	2.4	35	30	40G	52	Non-Reflective
ADRF5022	Silicon SPDT Switch, Nonreflective, 100 MHz to 45 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	100M	45G	1.9	50	30	40G	55	Non-Reflective
ADRF5080	Reflective, Silicon SP8T Switch, 100 MHz to 20 GHz	RECOMMENDED FOR NEW DESIGNS	SP8T	-	100M	20G	2	40	33	20G	55	Reflective
ADRF5054	1 GHz to 60 GHz, Reflective, Silicon SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon	1G	60G	2.8	34	24	55G	47	Reflective
ADRF5347	High Linearity, Silicon SP4T Switch, 1.8 GHz to 3.8 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon	1.8G	3.8G	0.42	27	39	3.8G	84	Reflective
ADL8112	10 MHz to 26.5 GHz Amplifier with Bypass Switches	RECOMMENDED FOR NEW DESIGNS	-	-	10M	26.5G	-	-	-	14G	-	-
ADRF5534	3.1 GHz to 4.2 GHz, Receiver Front End	RECOMMENDED FOR NEW DESIGNS	-	1-stage LNA, High Power SPDT	3.1G	4.2G	0.8	-	37	3.6G	-	-
ADRF5032	1 GHz to 60 GHz, Reflective, Silicon SPDT Switch	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon	1G	60G	1.9	37	24	55G	45	Reflective

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADRF5050	Nonreflective, Silicon SP4T Switch, 100 MHz to 20 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	100M	20G	1.2	47	33	20G	55	Non-Reflective
ADRF5049	Silicon SP4T Switch, Nonreflective, 9 kHz to 45 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	-	9k	45G	2.2	40	30	40G	50	Non-Reflective
ADRF5023	Silicon SPDT Switch, Nonreflective , 9 kHz to 45 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	9k	45G	1.6	42	30	40G	53	Non-Reflective
ADRF5144	10 W Average, Silicon SPDT, Reflective Switch, 1 GHz to 20 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon	1G	20G	0.8	52	43	20G	70	Reflective
ADRF5141	Silicon, Transmit and Receive Switch with Limiter, 6 GHz to 12 GHz	RECOMMENDED FOR NEW DESIGNS	T/R with Limiter	Silicon	6G	12G	0.9	55	40	12G	58	Reflective
ADRF5301	Silicon, SPDT Switch, 37 GHz to 49 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	37G	49G	1.4	30	28	40G	52	Reflective
ADH347S	Aerospace GaAs, SPDT Switch, Non-reflective, DC to 14 GHz (LH5 Pkg), DC to 20 GHz (Die)	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	20G	3	45	27	-	43	Non-Reflective
ADRF5345	High Linearity, Silicon SP4T Switch, 1.8 GHz to 3.8 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	1.8G	3.8G	0.35	32	50	2.8G	84	Reflective
ADRF5424	Die on Carrier, Silicon SPDT Switch, 100 MHz to 60 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Die-on-Carrier (DoC), Silicon (SOI)	100M	60G	1.3	35	27	40G	50	Reflective, Reflective Short

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADRF5515A	Dual-Channel, 3.3 GHz to 4.0 GHz, 20 W Receiver Front End	RECOMMENDED FOR NEW DESIGNS	-	-	3.3G	4G	0.5	-	43	3.6G	-	-
ADRF5519	Dual-Channel, 2.3 GHz to 2.8 GHz, 20 W Receiver Front End	RECOMMENDED FOR NEW DESIGNS	RX Front End, SPDT	2-Stage LNA, High Power SPDT	2.3G	2.8G	0.5	20	43	2.6G	-	Reflective
ADH244S	DC to 4 GHz SP4T Non-Reflective Switch	RECOMMENDED FOR NEW DESIGNS	-	-	-	-	2	-	27	-	43	-
ADRF5515	Dual-Channel, 3.3 GHz to 4.0 GHz, 20 W Receiver Front End	RECOMMENDED FOR NEW DESIGNS	RX Front End, SPDT	2-Stage LNA, High Power SPDT	3.4G	3.8G	0.45	18.5	43	3.6G	-	Reflective
ADRF5300	Silicon SPDT Switch, Reflective, 24 GHz to 32 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	24G	32G	1.1	38	28	30G	65	Reflective
ADRF5042	Nonreflective, 100 MHz to 44 GHz Silicon SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	100M	44G	2.8	39	24	40G	47	Non-Reflective
ADRF5043	Nonreflective, 9 kHz to 44 GHz Silicon SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	9k	44G	2.4	39	24	40G	48	Non-Reflective
ADTR1107	6 GHz to 18 GHz, Front-End IC	RECOMMENDED FOR NEW DESIGNS	SPDT	High Power SPDT, LNA, PA	6G	18G	-	-	-	12G	-	Reflective
ADRF5047	Silicon SP4T Switch, Reflective, 9 kHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	9k	44G	2.7	37	27	40G	50	Reflective, Reflective Short

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADRF5547	Dual-Channel, 3.7 GHz to 5.3 GHz, Receiver Front End	RECOMMENDED FOR NEW DESIGNS	RX Front End, SPDT	2-Stage LNA, High Power SPDT	3.7G	5.3G	0.5	25	40	4.6G	-	Reflective, Reflective Open
ADRF5549	Receiver Front End, Dual-Channel, 1.8 GHz to 2.8 GHz	RECOMMENDED FOR NEW DESIGNS	RX Front End, SPDT	2-Stage LNA, High Power SPDT	1.8G	2.8G	0.6	25	40	2.3G	-	Reflective, Reflective Open
ADRF5019	Silicon, SPDT Switch, Nonreflective, 100 MHz to 13 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	100M	13G	0.8	45	35	8G	60	Non-Reflective
ADL8111	10 MHz to 8 GHz Bypass Amplifier	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	10M	8G	2	-	20	-	-	Non-Reflective
ADRF5545A	Dual-Channel, 2.4 GHz to 4.2 GHz Receiver Front End	RECOMMENDED FOR NEW DESIGNS	RX Front End, SPDT	2-Stage LNA, High Power SPDT	2.4G	4.2G	0.65	25	40	3.6G	-	Reflective, Reflective Open
ADRF5046	Silicon SP4T Switch, Reflective, 100 MHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	100M	44G	2.5	33	27.5	40G	50	Reflective, Reflective Short
ADRF5027	Silicon SPDT Switch, Nonreflective, 9 kHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	9k	44G	2.2	48	24	40G	54	Non-Reflective
ADRF5026	Silicon SPDT Switch, Nonreflective, 100 MHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	100M	44G	2.4	50	24	40G	53	Non-Reflective
HMC347B	GaAs, SPDT Switch, Nonreflective, 0.1 GHz to 20 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	100M	20G	1.7	45	27	20G	41	Non-Reflective

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADRF5024	Silicon SPDT Switch Reflective, 100 MHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	100M	44G	1.4	36	27	40G	50	Reflective, Reflective Short
ADRF5025	Silicon SPDT Switch, Reflective, 9 kHz to 44 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	9k	44G	1.4	36	27	40G	50	Reflective, Reflective Short
ADRF5160	High Power, 88 W Peak, Silicon SPDT, Reflective Switch, 0.7 GHz to 4.0 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	700M	4G	0.8	40	47.5	3.5G	70	Reflective, Reflective Open
ADRF5045	9 kHz to 30 GHz, Silicon, SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	9k	30G	2.4	45	24	30G	50	Non-Reflective
ADRF5044	100 MHz to 30 GHz, Silicon, SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	100M	30G	2.6	43	24	30G	50	Non-Reflective
ADRF5132	High Power, 20 W Peak, Silicon SPDT, Reflective Switch, 0.7 GHz to 5.0 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	700M	5G	0.65	42	43	3.5G	65	Reflective, Reflective Open
HMC641ALP4E	0.1 GHz to 20 GHz GaAs, Nonreflective, SP4T Switch	PRODUCTION	SP4T	GaAs	100M	20G	3	40	26.5	20G	41	Non-Reflective
ADRF5250	0.1 GHz to 6 GHz Silicon SP5T Switch	RECOMMENDED FOR NEW DESIGNS	SP5T	Silicon (SOI)	100M	6G	1.5	50	33	4G	57	Non-Reflective
HMC435A	SPDT Non-Reflective Switch, DC - 4 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	4G	1.2	40	31	4G	51	Non-Reflective
HMC784A	GaAs MMIC 10 Watt T/R Switch DC - 4 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT, T/R	GaAs	0	4G	0.6	30	39	2G	62	Reflective, Reflective Short

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC349AMS8G	High Isolation, Nonreflective, GaAs, SPDT Switch, 100 MHz to 4 GHz	PRODUCTION	SPDT	GaAs	100M	4G	1.8	45	33.5	4G	52	Non-Reflective
HMC232A	GaAs, SPDT Switch, Nonreflective, 100 MHz to 12 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	12G	1.5	60	30.9	6G	48	Non-Reflective
HMC347A-Die	GaAs, SPDT Switch, Nonreflective, 0.1 GHz to 20 GHz	PRODUCTION	SPDT	GaAs	0	20G	2.1	40	27	20G	45	Non-Reflective
HMC347ALP3E	GaAs MMIC SPDT Non-Reflective Switch, DC - 14 GHz	PRODUCTION	SPDT	GaAs	0	14G	2	40	27	14G	47	Non-Reflective
HMC547ALP3E	GaAs MMIC SPDT Non-Reflective Switch, DC - 20 GHz	PRODUCTION	SPDT	GaAs	0	20G	2	38	25	18G	45	Non-Reflective
ADRF5020	100 MHz to 30 GHz, Silicon SPDT Switch	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	0.1G	30G	2	60	24	30G	52	Non-Reflective
ADRF5021	9 kHz to 30 GHz, Silicon SPDT Switch	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	9k	30G	2	60	24	30G	52	Non-Reflective
ADRF5040	High Isolation, Silicon SP4T, Nonreflective Switch, 9 kHz to 12.0 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	9k	12G	0.8	34	33	8G	58	Non-Reflective
ADRF5130	High Power, 44 W Peak, Silicon SPDT, Reflective Switch, 0.7 GHz to 3.5 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	0.7G	3.5G	0.7	41	44.5	3.5G	65	Reflective, Reflective Open
HMC986A	0.1 GHz to 50 GHz, GaAs, MMIC Reflective SPDT Switch	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0.1G	50G	2.3	32	25	40G	40	Reflective, Reflective Short

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC270A	GaAs MMIC SPDT Switch Non-Reflective DC -8 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0G	8G	1	45	29	6G	42	Non-Reflective
HMC574A	GaAs MMIC 5 Watt T/R Switch DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT, T/R	GaAs	0	3G	0.3	28	39	2G	63	Reflective, Reflective Short
HMC641A-Die	0.1 GHz to 18 GHz, GaAs SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	GaAs	100M	18G	2.1	42	24	12G	41	Non-Reflective
HMC7992	Nonreflective, Silicon SP4T Switch, 0.1 GHz to 6.0 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	Silicon (SOI)	0.1G	6G	0.7	37	33	4G	58	Non-Reflective
ADH232S	High Isolation SPDT Switch DC-16 GHz Die	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	12G	1.5	60	30.9	6G	48	Non-Reflective
HMC1118	High Isolation, Silicon SPDT, Nonreflective Switch, 9 kHz to 13.0 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	9k	13G	0.68	48	35	8G	62	Non-Reflective
HMC8038	High Isolation, Silicon SPDT, Nonreflective Switch, 0.1 GHz to 6.0 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	Silicon (SOI)	0.1G	6G	0.8	60	34	4G	60	Non-Reflective
HMC244A	GaAs MMIC SP4T Non-Reflective Switch, DC - 4 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	GaAs	0	4G	0.8	40	27	2G	47	Non-Reflective
HMC284A	SPDT, Non-Reflective Switch SMT, DC - 3.5 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	3.5G	0.5	45	26	2G	50	Non-Reflective
MAX12005	Satellite IF Switch	PRODUCTION	8x4 Matrix	SiGe	950M	2.15G	-	-	-	-	-	-

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
ADG904	Wideband 2.5 GHz, 37 dB Isolation at 1 GHz, CMOS 1.65 V to 2.75 V, 4:1 Mux/SP4T	PRODUCTION	SP4T	CMOS	0	2.5G	1.1	37	-	1G	31	Non-Reflective, Reflective
ADG918	Wideband, 43 dB Isolation at 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switches	PRODUCTION	SPDT	CMOS	0	4G	0.8	43	-	1G	36	Non-Reflective
ADG919	Wideband, 43 dB Isolation at 1 GHz, CMOS 1.65 V to 2.75 V, 2:1 Mux/SPDT Switches	PRODUCTION	SPDT	CMOS	0	4G	0.8	43	-	1G	36	Reflective
ADG936	Wideband 4 GHz, 36 dB Isolation at 1 GHz, CMOS 1.65 V to 2.75 V, Dual SPDT	PRODUCTION	SPDT	CMOS	0	4G	0.9	36	-	1G	32	Non-Reflective, Reflective
ADG902	0 Hz to 4.5 GHz, 40 dB Off Isolation at 1 GHz, 17 dBm P1dB at 1 GHz SPST Switches	PRODUCTION	SPST	CMOS	0	4.5G	0.8	20	-	1G	36	Reflective
ADG901	0 Hz to 4.5 GHz, 40 dB Off Isolation at 1 GHz, 17 dBm P1dB at 1 GHz SPST Switches	PRODUCTION	SPST	CMOS	0	4.5G	0.8	40	-	1G	36	Non-Reflective
HMC241ALP3E	GaAs, Nonreflective, SP4T Switch 100 MHz to 4 GHz	PRODUCTION	SP4T	GaAs	100M	4G	0.7	43	28.5	2G	47	Non-Reflective
HMC1055	0.5 GHz to 4.0 GHz, GaAs, SPST Switch	RECOMMENDED FOR NEW DESIGNS	SPST	GaAs	0.5G	4G	0.7	36	34	2G	60	Non-Reflective

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC1084	GaAs MMIC SP4T Reflective Switch, 23 - 30 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	GaAs	23G	30G	2.8	26	30	25G	47	Reflective, Reflective Short
HMC190B	GaAs MMIC SPDT Switch SMT, DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	3G	0.4	30	34	2G	55	Reflective, Reflective Open
HMC194A	SPDT Hi Isolation Switch SMT, DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	3G	0.5	45	27	2G	53	Reflective, Reflective Open
HMC197B	GaAs MMIC SOT26 SPDT Switch, DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	3G	0.4	30	34	2G	55	Reflective, Reflective Short
HMC199A	Dual SPDT Switch, DC - 2.5 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	2.5G	0.4	25	29.3	2G	55	Reflective, Reflective Open
HMC221BE	GaAs, MMIC, SPDT Switch, 10 kHz to 3 GHz	PRODUCTION	SPDT	GaAs	10k	3G	0.4	30	31	2G	55	Reflective, Reflective Short
HMC241AQS16	GaAs MMIC SP4T Non-Reflective Switch, DC - 3.5 GHz	PRODUCTION	SP4T	GaAs	0	3.5G	0.7	40	28.5	2G	48	Non-Reflective
HMC245A	GaAs MMIC SP3T Non-Reflective Switch, DC - 3.5 GHz	RECOMMENDED FOR NEW DESIGNS	SP3T	GaAs	0	3.5G	0.7	42	28.5	2G	48	Non-Reflective
HMC252A	GaAs MMIC SP6T Non-Reflective Switch, DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SP6T	GaAs	0	3G	0.8	45	29.8	2.5G	47	Non-Reflective
HMC253ALC4	GaAs MMIC SP8T Non-reflective Switch SMT, DC to 3.5 GHz	PRODUCTION	SP8T	GaAs	0	3.5G	1.1	43	25	2G	43	Non-Reflective

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC253AQS24	GAAS MMIC SP8T Non-Reflective Switch, DC - 2.5 GHz	PRODUCTION	SP8T	GaAs	0	2.5G	1.1	35	25	2G	46	Non-Reflective
HMC321A	GaAs MMIC SP8T Non-Reflective Positive Control Switch, DC - 8 GHz	RECOMMENDED FOR NEW DESIGNS	SP8T	GaAs	0	8G	2.5	30	26	6G	40	Non-Reflective
HMC322ALP4E	GaAs MMIC SP8T NON-REFLECTIVE SWITCH, DC - 8 GHz	PRODUCTION	SP8T	GaAs	0	8G	2.5	35	26.5	6G	40	Non-Reflective
HMC344A	0.1 GHz to 8 GHz, GaAs, Nonreflective, SP4T Switch	RECOMMENDED FOR NEW DESIGNS	SP4T	GaAs	100M	8G	1.7	36	28	6G	44	Non-Reflective
HMC345A	GaAs MMIC SP4T Non-Reflective Positive Control Switch, DC* - 8 GHz	RECOMMENDED FOR NEW DESIGNS	SP4T	GaAs	0	8G	2	35	24	6G	43	Non-Reflective
HMC349ALP4CE	High Isolation, Nonreflective, GaAs, SPDT Switch, 100 MHz to 4 GHz	PRODUCTION	SPDT	GaAs	100M	4G	1.2	57	33.5	4G	53	Non-Reflective
HMC427A	GaAs MMIC Positive Control Transfer Switch, DC* - 8GHz	RECOMMENDED FOR NEW DESIGNS	Transfer	GaAs	0	8G	1.5	43	27	6G	43	Reflective, Reflective Open
HMC536LP2	3W SPDT T/R Switch SMT, DC - 6 GHz,	PRODUCTION	SPDT, T/R	GaAs	0	6G	0.7	27	35	4G	52	Reflective, Reflective Short
HMC536MS8G	3 Watt SPDT T/R Switch SMT, DC - 6 GHz	PRODUCTION	SPDT, T/R	GaAs	0	6G	0.6	27	35	4G	52	Reflective, Reflective Open

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC544A	GaAs MMIC T/R Switch, DC - 4 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT, T/R	GaAs	0G	4G	0.4	16	39	2G	60	Reflective, Reflective Open
HMC545A	GaAs MMIC SPDT SWITCH, DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0G	3G	0.3	31	34	2G	51	Reflective, Reflective Short
HMC546LP2E	10 W, Failsafe, GaAs, SPDT Switch 0.2 GHz to 2.7 GHz	PRODUCTION	SPDT, T/R	Fail Safe, GaAs	0.2G	2.7G	0.4	27	40	2G	64	Reflective, Reflective Short
HMC546MS8G	GaAs MMIC 20 Watt Failsafe Switch 0.2 to 2.2 GHz	PRODUCTION	SPDT, T/R	Fail Safe, GaAs	0.2G	2.2G	0.4	30	40	2G	67	Reflective, Reflective Short
HMC547ALC3	GaAs MMIC SPDT Non-Reflective Switch, DC - 28.0 GHz	PRODUCTION	SPDT	GaAs	0	28G	1.9	40	25	20G	46	Non-Reflective
HMC550A	GaAs MMIC SPST Failsafe Switch SMT, DC - 6 GHz	RECOMMENDED FOR NEW DESIGNS	SPST	Fail Safe, GaAs	0	6G	0.7	12	34	4G	52	Reflective, Reflective Open
HMC595A	GaAs MMIC 3 WATT T/R SWITCH DC - 3 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT, T/R	GaAs	0	3G	0.3	26	39	2G	64	Reflective, Reflective Short
HMC596	CMOS 4x2 Switch Matrix SMT, 0.2 - 3.0	RECOMMENDED FOR NEW DESIGNS	4x2 Matrix	CMOS	0.2G	3G	6.5	40	23	2G	27	Non-Reflective
HMC641ALC4	GaAs MMIC SP4T Non-Reflective Switch, DC - 20 GHz	PRODUCTION	SP4T	GaAs	0	20G	1.8	42	26.5	12G	41	Non-Reflective
HMC646	40W SPDT Failsafe Switch SMT, 0.1 - 2.1 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT, T/R	Fail Safe	0.1G	2.1G	0.8	30	44	1.6G	74	Reflective, Reflective Short

	Description	Product Lifecycle	RF Switch Config	RF Features	Freq Response RF ^{min}	Freq Response RF ^{max}	Insertion Loss ^{typ}	Off Isolation ^{typ}	Input Power ^{max}	Specified at Freq	IIP3 ^{typ}	Absorptive/ Reflective
HMC849A	High Isolation SPDT Non-Reflective Switch SMT, DC - 6 GHz	RECOMMENDED FOR NEW DESIGNS	SPDT	GaAs	0	6G	1	56	33	4G	52	Non-Reflective

Timing IC and Clock IC

Parts	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
ADF4378	Microwave Wideband Synthesizer with Integrated VCO and Deterministic General-Purpose Pulse Retimer	RECOMMENDED FOR NEW DESIGNS	-	-	800M	12.8G	Yes	-	Delay Adjust, Integer-N PLL, Low Jitter, LVDS, Synchronization, Zero Delay
ADF4382A	2.87GHz to 21GHz Fractional-N PLL/VCO for High Performance Converter Clocking Applications	RECOMMENDED FOR NEW DESIGNS	-	-	2.188G	21G	Yes	-	Fractional, Integer-N PLL, Low Jitter, Low Noise, Low Noise Phase Detector, Multiple Device Synchronization, Zero Delay
ADAR4002	0.5 GHz to 19 GHz Broadband Bi-Directional Single Channel True Time Delay Unit	RECOMMENDED FOR NEW DESIGNS	-	1m	-	-	-	-	-
ADF4377	Microwave Wideband Synthesizer with Integrated VCO	RECOMMENDED FOR NEW DESIGNS	-	-	800M	12.8G	Yes	-	Delay Adjust, Integer-N PLL, Low Jitter, Synchronization, Zero Delay
AD9546	Dual DPLL Digitized Clock Synchronizer	RECOMMENDED FOR NEW DESIGNS	1.8	630m	1	500M	Yes	217f	1PPS, Clean Up, Delay Adjust, Dual Channel, EEPROM, Ethernet Clock, Fractional, Holdover, IEEE1588, Integer-N PLL, Internal System Clock, JESD, Lock Detect, Low Jitter, Low Noise, Network Clock, Programmable Frequency Profile, Switchover, Synchronization, Zero Delay
LTC6955	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family	LAST TIME BUY	3.3	1.3	0	7.5G	No	45f	Parallel Interface to Power Down or Invert Outputs
LTC6955-1	Ultralow Jitter, 7.5GHz, 11 Output Fanout Buffer Family	LAST TIME BUY	3.3	1.3	0	7.5G	No	45f	Parallel Interface to Power Down or Invert Outputs
LTC6952	Ultralow Jitter, 4.5GHz PLL with 11 Outputs and JESD204B / JESD204C Support	LAST TIME BUY	3.3, 5	2.6	0	4.5G	No	65f	-
AD9543	Quad Input, 10-Output, Dual DPLL/IEEE 1588 Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	1.8	560m	1	500M	Yes	220f	Clean Up, Dual Channel, EEPROM, Fractional, Holdover, IEEE1588, JESD, Reset, Switchover, Synchronization, Zero Delay

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9544	Quad Input, 10-Output, Dual DPLL, 1 pps Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	1.8	560m	1	500M	Yes	220f	1PPS, Clean Up, Dual Channel, EEPROM, Fractional, Holdover, IEEE1588, Reset, Switchover, Synchronization, Zero Delay
AD9545	Quad Input, 10-Output, Dual DPLL/IEEE 1588, 1 pps Synchronizer and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	1.8	560m	1	500M	Yes	220f	1PPS, Clean Up, Dual Channel, EEPROM, Fractional, Holdover, IEEE1588, JESD, Reset, Switchover, Synchronization, Zero Delay
AD9576	Dual PLL, Asynchronous Clock Generator	RECOMMENDED FOR NEW DESIGNS	2.5, 3.3	619m	-	1.25G	Yes	0.25p	Dual Channel, Fractional, XTL Redundancy, Zero Delay
AD9530	4 CML Output, Low Jitter Clock Generator with an Integrated 5.4 GHz VCO	RECOMMENDED FOR NEW DESIGNS	2.5	2.3	5.725M	2.7G	Yes	232f	Clean Up
LTC6951	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO	LAST TIME BUY	3.3	1.1	1.95M	2.5G	Yes	90f	-
LTC6951-1	Ultralow Jitter Multi-Output Clock Synthesizer with Integrated VCO	LAST TIME BUY	3.3	1.1	2.1M	2.7G	Yes	90f	-
HMC7043	High Performance, 3.2 GHz, 14-Output Fanout Buffer with JESD204B/JESD204C	RECOMMENDED FOR NEW DESIGNS	3.3	1.5	-	3.2G	No	15f	JESD
AD9531	3-Channel Clock Generator, 24 Outputs	RECOMMENDED FOR NEW DESIGNS	1.8, 3.3	600m	-	400M	Yes	0.462p	Tri Channel
LTC6954-1	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	3.3	990m	-	1.4G	No	29f	-
LTC6954-2	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	3.3	930m	-	1.4G	No	29f	-
LTC6954-3	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	3.3	930m	-	1.4G	No	29f	-
LTC6954-4	Low Phase Noise, Triple Output Clock Distribution Divider/Driver	LAST TIME BUY	3.3	930m	-	1.4G	No	29f	-

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
HMC7044	High Performance, 3.2 GHz, 14-Output Jitter Attenuator with JESD204B	RECOMMENDED FOR NEW DESIGNS	3.3	3.4	600k	3.2G	Yes	0.044p	Clean Up, JESD
ADCLK925S	Aerospace Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	-	325m	-	6G	No	60f	LVPECL
ADN2905	CPRI and 10G Ethernet Data Recovery IC with AMP/EQ from 614.4 Mbps to 10.3125 Gbps	NOT RECOMMENDED FOR NEW DESIGNS	3.3	349.5m	-	-	-	-	-
AD9528	JESD204B/JESD204C Clock Generator with 14 LVDS/HSTL Outputs	RECOMMENDED FOR NEW DESIGNS	-	1.675	-	1.25G	Yes	160f	Clean Up, JESD, Zero Delay
AD9578	Dual PLL Precision Synthesizer	LAST TIME BUY	-	618m	11.8M	919M	Yes	300f	Fractional
AD9574	Ethernet/Gigabit Ethernet Clock Generator	RECOMMENDED FOR NEW DESIGNS	-	569m	19.44M	312.5M	Yes	1.969p	Switchover, XTL Redundancy
AD9554-1	Quad PLL, Quad Input, Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	-	920m	430k	941M	Yes	381f	Clean Up, EEPROM, Holdover, Quad Channel, Switchover
ADN2917	Continuous Rate 8.5 Gbps to 11.3 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	NOT RECOMMENDED FOR NEW DESIGNS	3.3	352m	-	-	-	-	-
ADN2913	Continuous Rate 6.5 Mbps to 8.5 Gbps Clock and Data Recovery IC with Integrated Limiting Amp/EQ	NOT RECOMMENDED FOR NEW DESIGNS	3.3	446.6m	-	-	Yes	-	-
AD9554	Quad PLL, Quad Input, 8-output Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	-	940m	430k	941M	Yes	381f	Clean Up, EEPROM, Holdover, Quad Channel, Switchover

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
LTC6957-1	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	3.3	59.4m	-	300M	No	45f	-
LTC6957-2	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	3.3	59.4m	-	300M	No	67f	-
LTC6957-3	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	3.3	59.4m	-	300M	No	53f	-
LTC6957-4	Low Phase Noise, Dual Output Buffer/Driver/Logic Converter	LAST TIME BUY	3.3	59.4m	-	300M	No	53f	-
AD9508	1.65 GHz Clock Fanout Buffer with Output Dividers and Delay Adjust	RECOMMENDED FOR NEW DESIGNS	-	500m	-	1.65G	No	91f	Clock Fanout, Delay Adjust
MAX31180	Spread-Spectrum Crystal Multiplier	PRODUCTION	-	-	-	134M	No	-	-
AD9525	Low Jitter Clock Generator Eight LVPECL Outputs	RECOMMENDED FOR NEW DESIGNS	-	1.2	-	3.6G	No	68f	Low Jitter
AD9559	Dual PLL Quad Input Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	-	710m	262k	1.25G	Yes	306f	Clean Up, Dual Channel, Holdover, Switchover
AD9557	Dual-Input Multiservice Line Card Adaptive Clock Translator	RECOMMENDED FOR NEW DESIGNS	-	550m	360k	1.25G	Yes	321f	Clean Up, EEPROM, Holdover, Switchover
AD9558	Quad Input Multiservice Line Card Adaptive Clock Translator with Frame Sync	RECOMMENDED FOR NEW DESIGNS	-	740m	360k	1.25G	Yes	321f	Clean Up, EEPROM, Holdover, Switchover
AD9577	Clock Generator with Dual PLLs, Spread Spectrum, and Margining	RECOMMENDED FOR NEW DESIGNS	-	1	-	637.5M	Yes	460f	Spread Spectrum
AD9523-1	Low Jitter Clock Generator with 14 LVPECL/LVDS/HSTL/29 LVC MOS Outputs	RECOMMENDED FOR NEW DESIGNS	-	898m	-	1G	Yes	150f	Clean Up, EEPROM, Reset, Zero Delay

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9550	Integer-N Clock Translator for Wireline Communications	RECOMMENDED FOR NEW DESIGNS	-	450m	0	810M	Yes	1.31p	Integer-N PLL
AD9523	14-Output, Low Jitter Clock generator	NOT RECOMMENDED FOR NEW DESIGNS	-	876m	-	1G	Yes	169f	Clean Up, EEPROM, Reset, Zero Delay
AD9524	6 Output, Dual Loop Clock Generator	NOT RECOMMENDED FOR NEW DESIGNS	-	559m	-	1G	Yes	169f	Clean Up, EEPROM, Reset, Zero Delay
ADN4670	Programmable Low Voltage 1:10 LVDS Clock Driver	PRODUCTION	-	350m	-	1.1G	No	111f	LVDS
ADCLK944	2.5 V/3.3 V, Four LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	525m	-	7G	No	26f	Clock Fanout
AD9575	Network Clock Generator, Two Outputs	RECOMMENDED FOR NEW DESIGNS	-	350m	-	312.5M	Yes	390f	Dual Channel, Low Noise Phase Detector, Network Clock
AD9553	Flexible Clock Translator for GPON, Base Station, SONET/SDH, T1/E1, and Ethernet	RECOMMENDED FOR NEW DESIGNS	-	450m	0	810M	Yes	1.28p	Holdover, Integer-N PLL
AD9571	Ethernet Clock Generator, 10 Clock Outputs	RECOMMENDED FOR NEW DESIGNS	-	690m	-	156.25M	Yes	410f	Ethernet Clock, Multioutput
AD9572	Fiber Channel/Ethernet Clock Generator IC, PLL Core, Dividers, 7 Clock Outputs	RECOMMENDED FOR NEW DESIGNS	-	1	-	156.25M	Yes	420f	Dual Channel
ADCLK948	Two Selectable Inputs, 8 LVPECL Outputs SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	1.2	-	4.8G	No	28f	Clock Fanout, LVPECL
AD9547	Dual/Quad Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	-	800m	-	725M	Yes	340f	Clean Up, Holdover, Switchover, Synchronization

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
ADCLK950	Two Selectable Inputs, 10 LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	4.8G	No	28f	Clock Fanout, LVPECL
AD9573	PCI-Express Clock Generator IC, PLL Core, Dividers, Two Outputs	RECOMMENDED FOR NEW DESIGNS	-	235m	-	100M	Yes	540f	Clock Divider, Express Clock, PLL Core
ADCLK846	1.8 V, 6 LVDS/12 CMOS Outputs Low Power Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	180m	-	1.2G	No	54f	Clock Fanout
ADCLK946	Six LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	1	4.5G	4.8G	No	28f	Clock Fanout, LVPECL
AD9548	Quad/Octal Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	-	800m	-	450M	Yes	340f	1PPS, Clean Up, EEPROM, Holdover, IEEE1588, Switchover, Synchronization, Zero Delay
ADCLK854	1.8 V, 12-LVDS/24-CMOS Output, Low Power Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	325m	-	1.2G	No	54f	Clock Fanout
ADCLK954	Two Selectable Inputs, 12 LVPECL Outputs, SiGe Clock Fanout Buffer	RECOMMENDED FOR NEW DESIGNS	-	1.6	4.5G	4.8G	No	28f	Clock Fanout, LVPECL
AD9516-5	14-Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	No	109f	Holdover, Switchover
ADN2855	Multirate 155 Mbps/622 Mbps/1244 Mbps/1250 Mbps Burst Mode Clock and Data Recovery IC with Deserializer	PRODUCTION	3.3	670m	-	-	-	-	-
AD9520-5	12 LVPECL/24 CMOS Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.4G	No	109f	EEPROM, Holdover, Zero Delay
AD9522-5	12 LVDS/24 CMOS Output Clock Generator	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	800M	No	146f	EEPROM, Holdover, Zero Delay

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9522-1	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.4 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	800M	Yes	323f	EEPROM, Holdover, Zero Delay
AD9522-2	12 LVDS/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	800M	Yes	342f	EEPROM, Holdover, Zero Delay
AD9522-3	12 LVDS/24 CMOS Output Clock Generator with Integrated 2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	800M	Yes	312f	EEPROM, Holdover, Zero Delay
AD9522-4	12 LVDS/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	800M	Yes	285f	EEPROM, Holdover, Zero Delay
AD9552	Oscillator Frequency Up Converter	RECOMMENDED FOR NEW DESIGNS	-	400m	0	900M	Yes	640f	Fractional, Sigma-Delta Modulator, Upconverter
AD9520-1	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	Yes	328f	EEPROM, Holdover, Zero Delay
AD9520-2	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	Yes	321f	EEPROM, Holdover, Zero Delay
AD9551	Multiservice Clock Generator	LAST TIME BUY	-	560m	0	900M	Yes	1.3p	Holdover, Switchover
AD9520-0	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	Yes	351f	EEPROM, Holdover, Zero Delay
AD9520-3	12 LVPECL/24 CMOS Output Clock Generator with Integrated 2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	Yes	308f	EEPROM, Holdover, Zero Delay

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9520-4	12 LVPECL/24 CMOS Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.5	-	2.4G	Yes	269f	EEPROM, Holdover, Zero Delay
ADCLK914	Ultrafast, SiGe, Open-Collector HVDS Clock/Data Buffer	RECOMMENDED FOR NEW DESIGNS	-	500m	-	7.5G	No	110f	-
AD9516-0	14-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.6	-	2.95G	Yes	342f	Holdover, Switchover
AD9516-1	14-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.6	-	2.95G	Yes	370f	Holdover, Switchover
AD9516-2	14-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.6	-	2.95G	Yes	329f	Holdover, Switchover
AD9516-3	14-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.6	-	2.95G	Yes	303f	Holdover, Switchover
AD9516-4	14-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.6	-	2.95G	Yes	275f	Holdover, Switchover
AD9517-0	12-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.95G	Yes	342f	Holdover, Switchover
AD9517-1	12-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.95G	Yes	370f	Holdover, Switchover
AD9517-2	12-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.95G	Yes	329f	Holdover, Switchover
AD9517-3	12-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.95G	Yes	303f	Holdover, Switchover
AD9517-4	12-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.4	-	2.95G	Yes	275f	Holdover, Switchover

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9518-0	6-Output Clock Generator with Integrated 2.8 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	2.95G	Yes	342f	Holdover, Switchover
AD9518-1	6-Output Clock Generator with Integrated 2.5 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	2.95G	Yes	370f	Holdover, Switchover
AD9518-2	6-Output Clock Generator with Integrated 2.2 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	2.95G	Yes	329f	Holdover, Switchover
AD9518-3	6-Output Clock Generator with Integrated 2.0 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	2.95G	Yes	303f	Holdover, Switchover
AD9518-4	6-Output Clock Generator with Integrated 1.6 GHz VCO	RECOMMENDED FOR NEW DESIGNS	-	1.1	-	2.95G	Yes	275f	Holdover, Switchover
ADN2805	1.25 Gbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	3.3	389m	-	-	-	-	-
AD9549	Dual Input Network Clock Generator/Synchronizer	RECOMMENDED FOR NEW DESIGNS	-	1	20M	725M	Yes	1p	Clean Up, Holdover, Switchover, Synchronization
ADCLK905	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	-	235m	-	6G	No	60f	-
ADCLK907	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	-	450m	-	6G	No	60f	-
ADCLK925	Ultrafast SiGe ECL Clock/Data Buffers	RECOMMENDED FOR NEW DESIGNS	-	325m	-	6G	No	60f	LVPECL
ADN2817	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC (With High Sensitivity Limiting Amp)	PRODUCTION	3.3	693m	-	-	-	-	-
ADN2818	Continuous Rate 10 Mbps to 2.7 Gbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	3.3	594m	-	-	-	-	-

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
DS1124	5.0V 8-Bit Programmable Timing Element	PRODUCTION	5	-	-	-	-	-	-
ADN2812	Continuous Rate 12.3 Mb/s to 2.7 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	PRODUCTION	3.3	750m	-	-	-	-	-
ADN2804	622 Mbps Clock and Data Recovery IC with Integrated Limiting Amplifier	NOT RECOMMENDED FOR NEW DESIGNS	3.3	420m	-	-	-	-	-
ADN2806	622 Mbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	3.3	360m	-	-	-	-	-
AD9540	Low Jitter, DDS-based Clock Generator and Synthesizer	RECOMMENDED FOR NEW DESIGNS	-	400m	-	655M	No	188f	Low Jitter
DS1080L	Spread-Spectrum Crystal Multiplier	PRODUCTION	-	-	-	134M	No	-	-
ADN2816	Continuous Rate 10 Mb/s to 675 Mb/s Clock and Data Recovery IC	PRODUCTION	3.3	366m	-	-	-	-	-
AD9513	800 MHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs	RECOMMENDED FOR NEW DESIGNS	-	605m	0	800M	No	300f	Clock Divider, Delay Adjust
ADN2813	Continuous Rate 12.3 Mb/s to 1.25 Gb/s Clock and Data Recovery IC with Integrated Limiting Amp	NOT RECOMMENDED FOR NEW DESIGNS	3.3	375m	-	-	-	-	-
ADN2815	Continuous Rate 10 Mb/s to 1.25 Gb/s Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	3.3	472m	-	-	-	-	-

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9515	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Two Outputs	RECOMMENDED FOR NEW DESIGNS	-	405m	0	1.6G	No	40f	Clock Divider, Delay Adjust
AD9514	1.6 GHz Clock Distribution IC, Dividers, Delay Adjust, Three Outputs	RECOMMENDED FOR NEW DESIGNS	-	525m	0	1.6G	No	40f	Clock Divider, Delay Adjust
AD9510	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Eight Outputs	RECOMMENDED FOR NEW DESIGNS	-	550m	-	1.2G	No	40f	Clock Divider, Delay Adjust
AD9511	1.2 GHz Clock Distribution IC, PLL Core, Dividers, Delay Adjust, Five Outputs	RECOMMENDED FOR NEW DESIGNS	-	550m	-	1.2G	No	40f	Clock Divider, Delay Adjust
AD9512	1.2 GHz Clock Distribution IC, Two 1.6 GHz Inputs, Dividers, Delay Adjust, Five Outputs	RECOMMENDED FOR NEW DESIGNS	-	800m	-	1.2G	No	40f	Clock Divider, Delay Adjust
AD2S99	Programmable Oscillator	PRODUCTION	-	40m	2k	20k	-	-	-
AD800	45 or 52 Mbps Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	5	-	-	-	Yes	-	-
DS26503	T1/E1/J1 BITS Element	PRODUCTION	-	-	-	-	-	-	-
AD807	155 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	NOT RECOMMENDED FOR NEW DESIGNS	5	170m	-	-	Yes	-	-
AD808	622 Mbps, Low Power, Post-Amp/Clock and Data Recovery IC	LAST TIME BUY	5	400m	-	-	Yes	-	-
ADN2807	155/622 Mb/s Clock and Data Recovery IC with Integrated Limiting Amp	NOT RECOMMENDED FOR NEW DESIGNS	3.3	500m	-	-	-	-	-

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random typ RMS	Clock Features
MAX3841	12.5Gbps, CML, 2 x 2 Crosspoint Switch	NOT RECOMMENDED FOR NEW DESIGNS	3.3	-	-	12.5G	No	-	Integrated Input Termination, Integrated Output Termination
MAX9392	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	3.3	-	-	1.5G	No	-	Anything Inputs, Flow-Through Pinout, High-Level Input Fail-Safe Detection
MAX9393	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	3.3	-	-	1.5G	No	-	Anything Inputs, Flow-Through Pinout, Low-Level Input Fail-Safe Detection
MAX9394	2:1 Multiplexers and 1:2 Demultiplexers with Loopback	PRODUCTION	3.3	-	-	3G	No	-	Fail-Safe Inputs, Integrated Splitter/Multiplexer
MAX9390	Anything-to-LVDS Dual 2 x 2 Crosspoint Switches	PRODUCTION	3.3	-	-	1.5G	No	-	Anything Inputs, Cross-Flow Pinout, High-Level Input Fail-Safe Detection
MAX9176	670MHz, LVDS-to-LVDS and Anything-to-LVDS, 2:1 Multiplexers	PRODUCTION	3.3	-	-	800M	No	-	Fail-Safe Inputs, High-ESD Rating, Low Power Shutdown Mode
MAX9389	Differential 8:1 ECL/PECL Multiplexer with Dual Output Buffers	PRODUCTION	3.3, 5	-	-	-	No	-	Fail-Safe Inputs
MAX9388	Differential 5:1 or 4:1 ECL/PECL Multiplexers with Single/Dual Output Buffers	PRODUCTION	3.3, 5	-	-	-	No	-	Fail-Safe Inputs
DS1100	5-Tap Economy Timing Element (Delay Line)	PRODUCTION	3.3	-	-	-	-	-	-
DS1100L	3-Volt 5-Tap Economy Timing Element (Delay Line)	PRODUCTION	5	-	-	-	-	-	-
DS1110	10-Tap Silicon Delay Line	PRODUCTION	3	-	-	-	-	-	-
ADN2811	OC-48/OC-48 FEC Clock and Data Recovery	LAST TIME BUY	3.3	500m	-	-	Yes	-	-

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
ADN2819	Multi Rate Limiting Amplifier and Clock and Data Recovery ICs	NOT RECOMMENDED FOR NEW DESIGNS	3.3	500m	-	-	Yes	-	-
DS1110L	3V 10-Tap Silicon Delay Line	PRODUCTION	3	-	-	-	-	-	-
MAX9321B	Differential PECL/ECL/LVPECL /LVECL Receiver/Driver	PRODUCTION	3.3, 5	-	-	-	No	-	Fail-Safe Inputs
MAX9180	400Mbps, Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package	PRODUCTION	3.3	-	-	400M	No	-	Fail-Safe Inputs, Rx/Tx Hi-Z at Power-Off
DS1135L	3-Volt 3-in-1 High-Speed Silicon Delay Line	PRODUCTION	5	-	-	-	-	-	-
MAX9155	Low-Jitter, Low-Noise LVDS Repeater in an SC70 Package	PRODUCTION	3.3	-	-	200M	No	-	Fail-Safe Inputs, Rx/Tx Hi-Z at Power-Off
MAX3783	2.7Gbps Dual Mux/Buffer with Loopback	NOT RECOMMENDED FOR NEW DESIGNS	3.3	-	-	2.75G	No	-	Integrated Input Termination, Integrated Output Termination, Integrated Splitter/Multiplexer
DS1135	3-in-1 High-Speed Silicon Delay Line	PRODUCTION	5	-	-	-	-	-	-
MAX9321	Differential LVPECL/LVECL/HSTL Receiver/Drivers	PRODUCTION	3.3	-	-	-	No	-	Fail-Safe Inputs
MAX9152	800Mbps, LVDS/LVPECL-to-LVDS 2 x 2 Crosspoint Switch	PRODUCTION	3.3	-	-	800M	No	-	Pin-Programmable Configuration, Pin-Programmable Output Resistance
MAX3840	+3.3V, 2.7Gbps Dual 2 x 2 Crosspoint Switch	NOT RECOMMENDED FOR NEW DESIGNS	3.3	-	-	2.7G	No	-	Integrated Input Termination, Integrated Output Termination

	Description	Product Lifecycle	Vs typ	Power typ	Output Frequency min	Output Frequency max	On-Chip VCO or DCO	Jitter Random RMS typ	Clock Features
AD9542	Dual DPLL, Quad Input, 10 Output, Multiservice Line Card Clock Translator and Jitter Cleaner	RECOMMENDED FOR NEW DESIGNS	1.8	560m	1	500M	Yes	220f	Clean Up, Dual Channel, EEPROM, Fractional, Holdover, JESD, Reset, Switchover, Synchronization, Zero Delay
HMC856	28 Gbps, 5-Bit, Digital Time Delay with Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	-3.3	610m	-	-	No	-	-
HMC859	26 GHz, Divide-By-8 SMT with Reset & Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	-3.3	320m	-	26G	No	90f	Reset
HMC877	Broadband Time Delay & Phase Shifter SMT, 8 - 23 GHz	LAST TIME BUY	3.3	627m	-	23G	No	-	-
HMC910	Broadband Analog Time Delay SMT, DC - 24 GHz	LAST TIME BUY	3.3	1450m	-	24G	No	-	-
HMC911	Broadband Analog Time Delay to 24 GHz	RECOMMENDED FOR NEW DESIGNS	3.3	1600m	-	24G	No	-	-
HMC959	26 GHz, Divide-By-4 SMT with Reset & Programmable Output Voltage	RECOMMENDED FOR NEW DESIGNS	-3.3	281m	-	26G	No	90f	Reset
LTC6953	Ultralow Jitter, 4.5GHz Clock Distributor with 11 Outputs and JESD204B/JESD204C Support	LAST TIME BUY	3.3	2	0	4.5G	No	65f	Parallel Interface to Power Down or Invert Outputs

Tunable Filters

Parts	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RFmin	Freq Response RFmax	Gain dBmin	Gain dBmax
ADMV8502	90 MHz to 225 MHz, Digitally Tunable, Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter	1	90M	225M	-	-
ADMV8505	225 MHz to 520 MHz, Digitally Tunable, Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter	1	225M	520M	-	-
ADMV8513	520 MHz to 1300 MHz, Digitally Tunable, Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter	1	520M	1.3G	-	-
ADMV8440CHIPS	20 GHz to 40 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	20G	40G	-	-
ADMV8526	1.25 GHz to 2.60 GHz Digitally Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter	1	1.25G	2.6G	-	-
ADMV8420ACPZ	10 GHz to 21.7 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	11G	20G	-	-
ADMV8420CHIPS	10 GHz to 21.7 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	10G	22.8G	-	-
ADMV8913	X Band, Digitally Tunable, High-Pass and Low-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter, High Pass Tunable Filter, Low Pass Tunable Filters	1	6.6G	11.9G	-	-
ADAQ8088	Dual-, Differential, Low-Pass Filter μModule with Gain and ADC Driver	PRODUCTION	-	2	0	36M	14	30
ADMV8818	2 GHz to 18 GHz, Digitally Tunable, High-Pass and Low-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter, High Pass Tunable Filter, Low Pass Tunable Filters	1	2G	18G	-	-
ADMV8416	6.3 GHz to 18 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	7G	16G	-	-
ADMV8432	15.1 GHz to 32 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	16.5G	29.5G	-	-

	Description	Product Lifecycle	RF Primary Function	# of Channels	Freq Response RF min	Freq Response RF max	Gain dB min	Gain dB max
HMC881A	2.4 GHz to 4 GHz, Tunable Low-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Low Pass and Harmonic	1	0	4G	-	-
HMC882A	3.95 GHz to 6.9 GHz, Tunable Low-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Low Pass and Harmonic	1	0	6.9G	-4	-1
HMC891A	1.95 GHz to 3.4 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	1.95G	3.4G	-	-
HMC890A	1.0 GHz to 1.9 GHz Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	1G	1.9G	-	-
HMC892A	3.45 GHz to 6.25 GHz, Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter	1	3.45G	6.25G	-	-
ADRF6520	Dual Programmable Filters and VGAs for 2 GHz Channel Spacing for μ W Radios	RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters	2	0	1.25G	-7	53
HMC1023	72 MHz Dual Programmable Low Pass Filter	NOT RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters	1	5M	72M	0	10
HMC900	50 MHz Dual Baseband Programmable Low Pass Filter	NOT RECOMMENDED FOR NEW DESIGNS	Baseband Programmable VGA-Filters	1	3.5M	50M	0	10
ADMV8052	30 MHz to 520 MHz Digitally Tunable Band-Pass Filter	RECOMMENDED FOR NEW DESIGNS	Bandpass Tunable Filter, Digitally Tunable Filter	1	30M	520M	-	-
HMC1044	Programmable Harmonic Low Pass Filter, 1 - 3 GHz 3 dB Bandwidth	NOT RECOMMENDED FOR NEW DESIGNS	Low Pass and Harmonic	1	0	3.025G	-	-

Variable Gain Amplifiers (VGA)

Parts	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq Response _{min}	Freq Response _{max}	NF _{typ}	Is _{typ}	Vs _{span min}	Vs _{span max}
MAX40109	Precision Signal Conditioning AFE for Pressure Sensor Applications	RECOMMENDED FOR NEW DESIGNS	1	-	-	-	-	1.2k	45k	-	2m	3	36
ADL6337A	35 dB Gain, 500 MHz to 5200 MHz Transmit VGA	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	5.9	37.4	500M	1G	3.7	460m	4.75	5.25
ADL6337B	35 dB Gain, 500 MHz to 5200 MHz Transmit VGA	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	4	35.5	1.35G	2.8G	4.5	460m	4.75	5.25
ADAQ8088	Dual-, Differential, Low-Pass Filter μ Module with Gain and ADC Driver	PRODUCTION	2	ADC Driver, Filter, VGA	Analog	14	30	0	36M	13	71m	2.7	3.3
ADA4355	Programmable Transimpedance, Current to Bits Receiver μ Module	RECOMMENDED FOR NEW DESIGNS	1	-	-	-	-	-	-	-	-	3.1	3.6
ADL5206	1.0 GHz DGA with 30 dB Range and 1 dB Step Size	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	0	32	0	1.7G	5.13	112m	3.15	5.25
ADL6317	Transmit VGA for Use with RF DACs and Transceivers	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	-2.4	33.6	1.5G	3G	6	435m	4.75	5.25
MAX3522B	DOCSIS 3.1 Programmable-Gain Amplifier	PRODUCTION	1	PGA	Digital	-24.3	26.2	5M	204M	12	725m	4.75	5.25
ADL6316	500 MHz to 1000 MHz Transmit VGA for Use with RF DACs and Transceivers	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	-3.4	31.1	500M	1G	5.85	435m	4.75	5.25

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
MAX3523	Low-Power DOCSIS 3.1 Programmable-Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	1	PGA	Digital	-24	38	5M	204M	14	700m	4.75	5.25
MAX3521	DOCSIS 3.0 Upstream Amplifier	PRODUCTION	1	PGA	Digital	-25	37	5M	85M	11	475m	4.75	5.25
ADL5335	700 MHz to 4200 MHz Tx DGA	RECOMMENDED FOR NEW DESIGNS	1	Driver, VGA	Digital	-8	12	700M	4.2G	5.4	125m	4.75	5.25
ADRF6520	Dual Programmable Filters and VGAs for 2 GHz Channel Spacing for μ W Radios	RECOMMENDED FOR NEW DESIGNS	2	Filter, VGA	Analog	-7	53	36M	720M	10.5	425m	3.15	3.45
HMC625B	0.5 dB LSB GaAs MMIC 6-Bit Digital Variable Gain Amplifier, DC - 5 GHz	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	-13.5	18	0	5G	6	87.5m	4.75	5.25
ADL5205	Dual, 35 dB Range, 1 dB Step Size DGA	RECOMMENDED FOR NEW DESIGNS	2	VGA	Digital	-9	26	0	1.7G	6.6	175m	3.15	5.25
HMC8121	81 GHz to 86 GHz, E-Band Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	5	22	81G	86G	-	265m	-5	4
HMC8120	71 GHz to 76 GHz, E-Band Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	7	22	71G	76G	-	250m	-5	4
ADA8282	Radar Receive Path AFE: 4-Channel LNA and PGA	RECOMMENDED FOR NEW DESIGNS	4	LNA, PGA	Digital	18	36	5M	42.3M	-	19.6m	3	3.6
ADA4961	Low Distortion, 3.2 GHz, RF DGA	RECOMMENDED FOR NEW DESIGNS	1	ADC Driver, VGA	Digital	-6	15	10M	3.2G	5.6	150m	3.3	5.5
HMC1023	72 MHz Dual Programmable Low Pass Filter	NOT RECOMMENDED FOR NEW DESIGNS	1	Filter, PGA	Digital	0	10	5M	72M	10	240m	4.75	5.25

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
AD8338	Low Power, 18 MHz Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	1	VGA	Analog	0	80	0	18M	-	3m	3	5
MAX19791	50MHz to 4000MHz Dual Analog Voltage Variable Attenuator with On-Chip 10-Bit SPI-Controlled DAC	PRODUCTION	2	VVA	Analog + Digital	-	-3.9	50M	4G	-	13m	3.15	5.25
MAX19793	1500MHz to 6000MHz Dual Analog Voltage Variable Attenuator with On-Chip 10-Bit SPI-Controlled DAC	PRODUCTION	2	VVA	Analog + Digital	-	-7.6	1.5G	6G	-	13m	3.15	5.25
HMC742A	0.5 dB LSB GaAs MMIC 6-Bit Digital Variable Gain Amplifier SMT, 0.07 - 4 GHz	RECOMMENDED FOR NEW DESIGNS	1	VGA	Digital	-19.5	12	70M	4G	4	150m	5	5.5
MAX19794	10MHz to 500MHz Dual Analog Voltage Variable Attenuator with On-Chip 10-Bit SPI-Controlled DAC	PRODUCTION	2	VVA	Analog + Digital	-	-3	10M	500M	-	13m	3.15	5.25
MAX2091	50MHz to 500MHz Analog VGA, 1735MHz to 1935MHz Upconverting Mixer with Image Filtering, Threshold Alarm Circuit, and Error Amplifier for Level Control	PRODUCTION	1	Filter, Mixer, VGA	Analog	-	23	50M	500M	5.4	254m	4.75	5.8
MAX2092	700MHz to 2700MHz Analog VGA with Threshold Alarm Circuit and Error Amplifier for Level Control	PRODUCTION	1	VGA	Analog	-	18.1	700M	2.7G	5.2	93m	4.75	5.8

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
AD8367S	Aerospace 500 MHz, 45 dB Linear-in-dB Variable Gain Amplifier	RECOMMENDED FOR NEW DESIGNS	1	Differential Amp, VGA	Analog	-2.5	42.5	10M	500M	-	39m	3	5.25
HMC6187	Variable Gain Amplifier SMT, 27 - 31.5 GHz	RECOMMENDED FOR NEW DESIGNS	1	VGA	Analog	6	19	27G	31.5G	4.5	230m	-5	4
HMC960	DC - 100 MHz Dual Digital Variable Gain Amplifier SMT with Driver	LAST TIME BUY	2	VGA	Digital	0	40	0	100M	6	70m	4.5	5.5
HMC996	Analog Variable Gain Amplifier SMT, 5 - 12 GHz	RECOMMENDED FOR NEW DESIGNS	1	VGA	Analog	-3.5	18.5	5G	12G	2	120m	5	5.5
HMC997	Analog Variable Gain Amplifier SMT, 17 to 27 GHz	RECOMMENDED FOR NEW DESIGNS	1	VGA	Analog	5.5	20.5	17G	27G	3.5	170m	5	5
MAX2090	50MHz to 1000MHz Analog VGA with Threshold Alarm Circuit and Error Amplifier for Level Control	PRODUCTION	1	VGA	Analog	-	25.5	50M	1G	4	85m	4.75	5.8
MAX1454	Precision Sensor Signal Conditioner with Overvoltage Protection	PRODUCTION	1	PGA	Digital	15.56	66.2	-	-	-	2.5m	3	5.5
MAX2064	50MHz to 1000MHz, High-Linearity, Serial/Analog-Controlled VGA	PRODUCTION	2	VVA	Analog + Digital	-	22	50M	1G	4.4	143m	4.75	5.25
HMC680	BiCMOS 5-Bit Digital Variable Gain Amplifier SMT, 30 - 400 MHz	LAST TIME BUY	1	VGA	Digital	-4	19	30M	400M	5	250m	4.5	5.6

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
HMC900	50 MHz Dual Baseband Programmable Low Pass Filter	NOT RECOMMENDED FOR NEW DESIGNS	1	Filter, PGA	Digital	0	10	3.5M	50M	12	130m	4.75	5.25
ADL5240	100 MHz TO 4000 MHz RF/IF Digitally Controlled VGA	LAST TIME BUY	1	VGA	Digital	-12.6	18.2	100M	4G	4.9	93m	4.75	5.25
ADL5243	100 MHz TO 4000 MHz RF/IF Digitally Controlled VGA	LAST TIME BUY	1	VGA	Digital	-1.2	31.3	100M	4G	3.1	175.5m	4.75	5.25
MAX19790	250MHz to 4000MHz Dual, Analog Voltage Variable Attenuator	PRODUCTION	2	VVA	Analog	-	-4.4	250M	4G	4.4	7.3m	4.75	5.25
AD8432	Dual-Channel Ultralow Noise Amplifier with Selectable Gain and Input Impedance	PRODUCTION	2	VGA	Digital, Pin Strap	12	24	100k	200M	2.3	24m	4.5	5.5
LTC6412	800MHz, 31dB Range Analog-Controlled VGA	LAST TIME BUY	1	VGA	Analog	-14	17	-	800M	10	110m	3	3.6
ADL5331	1 MHz to 1.2 GHz VGA with 30 dB Gain Control Range	RECOMMENDED FOR NEW DESIGNS	1	Differential Amp, VGA	Analog	-14	17	1M	1.2G	9	240m	4.75	5.25
AD8264	Quad, 235 MHz, DC-Coupled VGA and Differential Output Amplifier	RECOMMENDED FOR NEW DESIGNS	4	VGA	Analog	0	24	0	235M	-	99m	5	10
MAX9939	SPI-Programmable Gain Amplifier (PGA) with Input VOS Trim and Output Op Amp	PRODUCTION	1	PGA	Digital	-	-	-	-	-	3.4m	2.9	5.5
HMC694-Die	Analog Variable Gain Amplifier Chip, 6 - 17 GHz	PRODUCTION	1	VGA	Analog	1	24	6G	17G	5	170m	5	5.5

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
HMC694LP4	GaAs MMIC Analog Variable Gain Amplifier, 6 - 17 GHz	PRODUCTION	1	VGA	Analog	0	23	6G	17G	6	175m	5	5.5
LTC6603	Dual Adjustable Lowpass Filter	RECOMMENDED FOR NEW DESIGNS	2	PGA	Digital, Pin Strap	0	24	-	2.5M	-	88m	2.7	3.6
LT5554	Broadband Ultra Low Distortion 7-Bit Digitally Controlled VGA	PRODUCTION	1	VGA	Digital	2	18	0	1G	10	110m	4.75	5.25
MAX2067	50MHz to 1000MHz High-Linearity, Serial/Analog-Controlled VGA	PRODUCTION	1	VGA	Analog	-	21.9	50M	1G	4	123m	3.135	5.25
MAX2066	50MHz to 1000MHz High-Linearity, Serial/Parallel-Controlled Digital VGA	PRODUCTION	1	VGA	Digital	-	20.5	50M	1G	5.2	121m	3.135	5.25
MAX2065	50MHz to 1000MHz High-Linearity, Serial/Parallel-Controlled Analog/Digital VGA	PRODUCTION	1	VGA	Analog + Digital	-	19.4	50M	1G	6.5	124m	3.135	5.25
AD8372	41 dB Range, 1 dB Step Size, Programmable Dual VGA	RECOMMENDED FOR NEW DESIGNS	2	VGA	Digital	-9	32	10M	130M	7.9	212m	4.5	5.5
AD603	Low Noise, 90 MHz Variable Gain Amplifier	PRODUCTION	1	VGA	Analog	-11	31	16k	90M	8.8	20m	-	6.3
AD605	Dual, Low Noise, Single-Supply Variable Gain Amplifier	PRODUCTION	2	VGA	Analog	-14	34	100k	40M	8.4	23m	4.5	5.5

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
AD8260	High Current Driver Amplifier and Digital VGA/Preamplifier with 3 dB Steps	PRODUCTION	1	Receiver	Digital	-6	24	0	195M	17.6	28m	3.3	10
LTC6602	Dual Matched, High Frequency Bandpass/Lowpass Filters	RECOMMENDED FOR NEW DESIGNS	2	Differential Amp	Digital, Pin Strap	0	30	-	900k	-	65m	2.7	3.6
AD8368	800 MHz, Linear-in-dB VGA with AGC Detector	RECOMMENDED FOR NEW DESIGNS	1	ADC Driver, Differential Amp, VGA	Analog	-12	22	10M	800M	9.5	60m	4.75	5.5
AD8375	Ultralow Distortion IF VGA	PRODUCTION	1	Differential Amp, VGA	Digital	-4	20	10M	630M	8.3	125m	4.5	5.5
AD8376	Ultralow Distortion IF Dual VGA	RECOMMENDED FOR NEW DESIGNS	2	VGA	Digital	-4	20	10M	700M	8.7	250m	4.5	5.5
AD604	Dual, Ultralow Noise Variable Gain Amplifier	PRODUCTION	2	VGA	Analog	0	48	100k	40M	8.4	31m	10	10
AD8337	General-Purpose, Low Cost, DC-Coupled VGA	PRODUCTION	1	VGA	Analog	0	24	0	100M	-	15m	4.5	10
AD8370	750 MHz Digitally Controlled Variable Gain Amplifier	PRODUCTION	1	VGA	Digital	-11	34	10M	750M	7.2	79m	3	5.5
AD8336	General-Purpose, -55°C to +125°C, Wide Bandwidth, DC-Coupled VGA	PRODUCTION	1	VGA	Analog	-14	46	0	115M	-	25m	6	24
AD600	Dual, Low Noise, Wideband Variable Gain Amplifier, 0 dB To +40 dB Gain	PRODUCTION	2	VGA	Analog	0	40	100k	10M	-	14m	4.75	5.25

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
AD8330	Low Cost, DC to 150 MHz, Variable Gain Amplifier	PRODUCTION	1	VGA	Analog	0	50	0	150M	-	20m	2.7	6
MAX2058	700MHz to 1200MHz High-Linearity, SPI-Controlled DVGA with Integrated Loopback Mixer	PRODUCTION	1	DVGA, Mixer	Digital	-	10.5	700M	1.2G	6.8	158m	4.75	5.25
AD8332	Dual VGA with Ultralow Noise Preamplifier and Programmable RIN	PRODUCTION	2	VGA	Analog	-4.5	43.5	100k	100M	4.2	58m	4.5	5.5
AD8331	Single VGA with Ultralow Noise Preamplifier and Programmable RIN	PRODUCTION	1	VGA	Analog	-4.5	43	100k	120M	4.15	25m	4.5	5.5
AD8334	Quad VGA with Ultralow Noise Preamplifier and Programmable RIN	PRODUCTION	4	VGA	Analog	4.5	43.5	100k	100M	-	116m	4.5	5.5
ADL5330	10 MHz to 3 GHz VGA with 60 dB Gain Control Range	RECOMMENDED FOR NEW DESIGNS	1	VGA	Analog	-32	21	10M	3G	9	215m	4.75	5.25
AD602	Dual, Low Noise, Wideband Variable Gain Amplifier, -10 dB To +30 dB Gain	PRODUCTION	2	VGA	Analog	-10	30	100k	10M	-	14m	-	5.25
AD8351	Low Distortion Differential RF/IF Amplifier	PRODUCTION	1	ADC Driver, Differential Amp, VGA	Analog	0	26	1M	2.2G	15.5	28m	3	5.5
AD8367	500 MHz, 45 dB Linear-in-dB Variable Gain Amplifier	PRODUCTION	1	Differential Amp, VGA	Analog	-2.5	42.5	10M	500M	6.2	26m	2.7	5.5

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
AD8369	600 MHz, 45 dB Digitally Controlled Variable Gain Amplifier	PRODUCTION	1	VGA	Digital	-10	40	10M	600M	7	37m	3	5.5
AD8335	Quad Low Noise, Low Cost Variable Gain Amplifier	PRODUCTION	4	VGA	Analog	-10	38	100k	70M	-	76m	4.5	5.5
MAX2056	800MHz to 1000MHz Variable-Gain Amplifier with Analog Gain Control	PRODUCTION	1	VGA	Analog	-	15.5	800M	1G	4.5	136m	4.75	5.25
MAX2057	1300MHz to 2700MHz Variable-Gain Amplifier with Analog Gain Control	PRODUCTION	1	VGA	Analog	-	15.5	1.3G	2.7G	6	180m	4.75	5.25
LTC6912-1	Dual Programmable Gain Amplifiers with Serial Digital Interface	PRODUCTION	2	PGA	Digital	0	40	-	30M	-	1.75m	2.7	10.5
LTC6912-2	Dual Programmable Gain Amplifiers with Serial Digital Interface	PRODUCTION	2	PGA	Digital	0	36	-	30M	-	1.75m	2.7	10.5
LT5524	Low Distortion IF Amplifier/ADC Driver with Digitally Controlled Gain	PRODUCTION	1	VGA	Digital	4.5	27	-	540M	8.6	34m	4.75	5.25
LT5514	Ultralow Distortion IF Amplifier/ADC Driver with Digitally Controlled Gain	PRODUCTION	1	VGA	Digital	10.5	33	-	850M	7.4	64m	4.75	5.25
LTC6915	Zero Drift, Precision Instrumentation Amplifier with Digitally Programmable Gain	PRODUCTION	1	charge sampling	Digital	0	72.2	-	200k	-	1.1m	2.7	11

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
LTC6911-1	Dual Matched Amplifiers with Digitally Programmable Gain in MSOP	PRODUCTION	2	PGA	Digital	0	40	-	11M	-	2.1m	2.7	10.5
LTC6911-2	Dual Matched Amplifiers with Digitally Programmable Gain in MSOP	PRODUCTION	2	PGA	Digital	0	36	-	11M	-	2.1m	2.7	10.5
MAX2055	Digitally Controlled, Variable-Gain, Differential ADC Driver/Amplifier	PRODUCTION	1	Differential VGA	Digital	-	20	30M	300M	5.8	240m	4.75	5.25
MAX2027	IF Digitally Controlled Variable-Gain Amplifier	PRODUCTION	1	DVGA	Digital	-	15.5	50M	400M	4.7	60m	4.75	5.25
LTC6910-1	Digitally Controlled Programmable Gain Amplifiers in SOT-23	PRODUCTION	1	PGA	Digital	0	40	-	11M	-	2m	2.7	11
LTC6910-2	Digitally Controlled Programmable Gain Amplifiers in SOT-23	PRODUCTION	1	PGA	Digital	0	36	-	11M	-	2m	2.7	11
LTC6910-3	Digitally Controlled Programmable Gain Amplifiers in SOT-23	PRODUCTION	1	PGA	Digital	0	16.9	-	11M	-	2m	2.7	11
LTC1564	10kHz to 150kHz Digitally Controlled Antialiasing Filter and 4-Bit P.G.A	PRODUCTION	1	Filter, PGA	Digital	0	24	-	150k	-	17m	2.7	10.5
MAX1452	Low-Cost Precision Sensor Signal Conditioner	PRODUCTION	1	PGA	Digital	31.8	47.4	-	-	-	2m	4.5	5.5

	Description	Product Lifecycle	# of Channels	Amp Architecture	Gain Set	Gain _{min} dB	Gain _{max} dB	Freq _{min} Response	Freq _{max} Response	NF _{typ}	Is _{typ}	Vs _{min} span	Vs _{max} span
ADRF6521	Low Frequency to 3 GHz, Dual VGA with Output Common-Mode and DC Offset Control	RECOMMENDED FOR NEW DESIGNS	2	VVA + Amp	Analog	-3	18	10M	3G	10.5	200m	4.75	5.25
HMC627A	0.5 dB LSB GaAs MMIC 6-Bit Digital Variable Gain Amplifier SMT, 50 MHz - 1 GHz	LAST TIME BUY	1	VGA	Digital	-11.5	20	50M	1G	4.3	90m	5	5.5
HMC681A	0.5 dB LSB GaAs MMIC 6-BIT Digital Variable Gain Amplifier with Serial Control, DC - 1 GHz	LAST TIME BUY	1	VGA	Digital	13.5	45	50M	1G	2.7	176m	5	5.5

Voltage Controlled Oscillators (VCO)

Parts	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Vtune ^{min}	Vtune ^{max}	Phase Noise @ 100k	Output Power ^{typ}	Phase Noise @ 10k	Is ^{typ}	Vs ^{typ}
ADF5709	9.85 GHz to 20.5 GHz, Wideband, MMIC VCO	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	9.85G	20.5G	-500m	23	-83	0 dBm	-51	70m	5
HMC8362	11.90 GHz to 18.30 GHz Quadband VCO	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	11.9G	18.3G	1	13.5	-97.5	1.8	-70	72m	5
HMC8364	18.10 GHz to 26.60 GHz Quadband VCO	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	18.1G	26.6G	1	13.5	-91.5	0	-63.5	99m	5
HMC6475	Wideband MMIC VCO with Buffer Amplifier 3.90 - 7.50 GHz	RECOMMENDED FOR NEW DESIGNS	VCO, Wideband VCOs	3.9G	7.5G	0	23	-106	5 dBm	-79	53m	0
HMC8074	Quadband MMIC VCO 8.3 - 15.2 GHz	RECOMMENDED FOR NEW DESIGNS	VCO, Wideband VCOs	8.3G	15.2G	500m	13	-101	0 dBm	-72.5	60m	4.75
HMC6380	Wideband MMIC VCO with Buffer Amplifier 8.0 - 16.0 GHz	PRODUCTION	VCO, Wideband VCOs	8G	16G	0	23	-92	6 dBm	-64	75m	5
HMC1163	9.65 GHz to 10.41 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	9.65G	10.41G	2	13	-114	11 dBm	-87	205m	5
HMC1168	12.47 GHz to 13.72 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	12.47G	13.72G	2	13	-113	10 dBm	-85	190m	5
HMC1169	12.92 GHz to 14.07 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	12.92G	14.07G	2	13	-113	11 dBm	-86	220m	5
HMC1166	11.41 GHz to 12.62 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	11.41G	12.62G	2	13	-115	11 dBm	-89	220m	5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF _{min}	Freq Response RF _{max}	Vtune _{min}	Vtune _{max}	Phase Noise @ 100k	Output Power _{typ}	Phase Noise @ 10k	Is _{typ}	Vs _{typ}
HMC1167	12.17 GHz to 13.33 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	12.17G	13.3G	2	13	-113	10 dBm	-86	200m	5
HMC1165	11.07 GHz to 11.62 GHz, MMIC VCO with Half Ouput Frequency	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	11.07G	11.62G	2	13	-113	8 dBm	-88	210m	5
HMC1161	8.71 GHz to 9.55 GHz MMIC VCO with Half Frequency	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	8.71G	9.55G	2	13	-115	11 dBm	-90	250m	5
MAX2750AUA	2.4GHz Monolithic Voltage-Controlled Oscillator	PRODUCTION	VCO	2.37G	2.47G	400m	2.4	-95	-	-	11.3m	3
MAX9989	+14dBm to +20dBm LO Buffers with ±1dB Variation	PRODUCTION	VCO Buffer/Splitter	700M	1.1G	-	-	-	-	-	105m	5
MAX9988	+14dBm to +20dBm LO Buffers/Splitters with ±1dB Variation	PRODUCTION	VCO Buffer/Splitter	1.5G	2.2G	-	-	-	-	-	162m	5
MAX2754	1.2GHz VCO with Linear Modulation Input	PRODUCTION	VCO	1.145G	1.25G	400m	2.4	-100	-	-80	13.7m	3
MAX2750	2.4GHz Monolithic Voltage-Controlled Oscillators	PRODUCTION	VCO	947M	2.5G	400m	2.4	-95	-	-	11.3m	3
MAX2751	2.4GHz Monolithic Voltage-Controlled Oscillators	PRODUCTION	VCO	2.12G	2.26G	400m	2.4	-95	-	-	9.7m	3
MAX2752	2.4GHz Monolithic Voltage-Controlled Oscillators	PRODUCTION	VCO	2.025G	2.025G	400m	2.4	-95	-	-	10m	3
MAX2605	45MHz to 650MHz, Integrated IF VCOs with Differential Output	PRODUCTION	VCO	45M	75M	400m	2.4	-117	-	-	1.9m	3

	Description	Product Lifecycle	RF Primary Function	Freq Response RF _{min}	Freq Response RF _{max}	Vtune _{min}	Vtune _{max}	Phase Noise @ 100k	Output Power _{typ}	Phase Noise @ 10k	Is _{typ}	Vs _{typ}
MAX2606	45MHz to 650MHz, Integrated IF VCOs with Differential Output	PRODUCTION	VCO	70M	150M	400m	2.4	-112	-	-	2.1m	3
MAX2607	45MHz to 650MHz, Integrated IF VCOs with Differential Output	PRODUCTION	VCO	150M	300M	400m	2.4	-107	-	-	2.1m	3
MAX2608	45MHz to 650MHz, Integrated IF VCOs with Differential Output	PRODUCTION	VCO	300M	500M	400m	2.4	-100	-	-	2.7m	3
MAX2609	45MHz to 650MHz, Integrated IF VCOs with Differential Output	PRODUCTION	VCO	500M	650M	400m	2.4	-93	-	-	3.6m	3
MAX2622	Monolithic Voltage Controlled Oscillators	PRODUCTION	VCO	10M	881M	400m	2.4	-101	-	-78	9m	3
MAX2623	Monolithic Voltage Controlled Oscillators	PRODUCTION	VCO	855M	950M	400m	2.4	-101	-	-78	9m	3
MAX2624	Monolithic Voltage Controlled Oscillators	PRODUCTION	VCO	885M	998M	400m	2.4	-101	-	-78	9m	3
MAX2472	500MHz to 2500MHz, VCO Buffer Amplifiers	PRODUCTION	VCO Buffer/Splitter	500M	2.5G	-	-	-	-	-	5.2m	3.3
MAX2470	10MHz to 500MHz, VCO Buffer Amplifiers with Differential Outputs	PRODUCTION	VCO Buffer/Splitter	10M	500M	-	-	-	-	-	5.5m	3.3
MAX2471	10MHz to 500MHz, VCO Buffer Amplifiers with Differential Outputs	PRODUCTION	VCO Buffer/Splitter	10M	500M	-	-	-	-	-	5.5m	3.3
MAX2620	10MHz to 1050MHz Integrated RF Oscillator with Buffered Outputs	PRODUCTION	VCO	500M	1.05G	500m	3.5	-125	-	-102	9m	3

	Description	Product Lifecycle	RF Primary Function	Freq Response RF _{min}	Freq Response RF _{max}	Vtune _{min}	Vtune _{max}	Phase Noise @ 100k	Output Power _{typ}	Phase Noise @ 10k	Is _{typ}	Vs _{typ}
HMC513	VCO SMT with Fo/2 & Divide-by-4, 10.43 - 11.46 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	10.43G	11.46G	2	13	-110	7 dBm	-85	275m	5
HMC514	VCO SMT with Fo/2 & Divide-by-4, 11.17 - 12.02 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	11.17G	12.02G	2	13	-110	7 dBm	-87	275m	3
HMC515	VCO SMT with Fo/2 & Divide-by-4, 11.5 - 12.5 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	11.5G	12.5G	2	13	-110	10 dBm	-83	200m	5
HMC529	VCO SMT with Fo/2 & Divide-by-4, 12.4 - 13.4 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	12.4G	13.4G	2	13	-110	8 dBm	-83	260m	5
HMC530	VCO with Fo/2 & Divide-by-4 SMT, 9.5 - 10.8 GHz	PRODUCTION	VCO with Output Dividers	9.5G	10.8G	2	13	-110	11 dBm	-85	350m	5
HMC531	VCO SMT with Fo/2 & Divide-by-4, 13.6 - 14.9 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	13.6G	14.9G	2	13	-110	10 dBm	-81	330m	5
HMC532	VCO SMT w/Buffer Amplifier, 7.1 - 7.9 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	7.1G	7.9G	1	13	-101	14 dBm	-80	85m	3
HMC533	SMT VCO with Divide-by-16, 23.8 - 24.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	23.8G	24.8G	1	13	-95	12 dBm	-70	220m	5
HMC534	VCO SMT with Fo/2 & Divide-by-4, 10.6 - 11.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	10.6G	11.8G	2	13	-110	11 dBm	-82	350m	5
HMC1160	MMIC VCO with Half Frequency Output, 8.45 GHz to 9.30 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	8.45G	9.3G	2	13	-116	12 dBm	-90	260m	5
HMC1162	9.25 GHz to 10.10 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	9.25G	10.1G	2	13	-115	11 dBm	-86	230m	5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF _{min}	Freq Response RF _{max}	Vtune _{min}	Vtune _{max}	Phase Noise @ 100k	Output Power _{typ}	Phase Noise @ 10k	Is _{typ}	Vs _{typ}
HMC1164	10.38 GHz to 11.30 GHz MMIC VCO with Half Frequency Output	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	10.38G	11.3G	2	13	-114	8 dBm	-86	200m	5
HMC358	MMIC VCO SMT w/ Buffer Amp, 5.8 - 6.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	5.8G	6.8G	0	10	-110	11 dBm	-82	100m	3
HMC384	VCO SMT w/Buffer Amplifier, 2.05 - 2.25 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	2.05G	2.25G	0	10	-112	3.5 dBm	-89	35m	3
HMC385	VCO SMT w/Buffer Amplifier, 2.25 - 2.5 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	2.25G	2.5G	0	10	-115	4.5 dBm	-89	35m	3
HMC386	VCO SMT w/Buffer Amplifier, 2.6 - 2.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	2.6G	2.8G	0	10	-115	5 dBm	-88	35m	3
HMC388	VCO SMT w/Buffer Amplifier, 3.15 - 3.4 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	3.15G	3.4G	0	10	-113	4.9 dBm	-88	39m	3
HMC389	MMIC VCO SMT w/ Buffer Amplifier, 3.35 - 3.55 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	3.35G	3.55G	0	10	-112	4.7 dBm	-89	41m	3
HMC390	VCO SMT w/Buffer Amplifier, 3.55 - 3.9 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	3.55G	3.9G	0	10	-112	4.7 dBm	-87	42m	3
HMC391	VCO SMT w/Buffer Amplifier, 3.9 - 4.45 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	3.9G	4.45G	0	10	-106	5 dBm	-81	30m	3
HMC416	VCO SMT w/Buffer Amplifier, 2.75 - 3.0 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	2.75G	3G	0	10	-114	4.5 dBm	-89	37m	3
HMC429	VCO SMT w/Buffer Amplifier, 4.45 - 5.0 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	4.45G	5G	0	10	-105	4 dBm	-79	30m	3
HMC430	VCO SMT w/Buffer Amplifier, 5.0 - 5.5 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	5G	5.5G	0	10	-103	2 dBm	-80	27m	3
HMC431	VCO SMT w/Buffer Amplifier, 5.5 - 6.1 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	5.5G	6.1G	0	10	-102	2 dBm	-80	27m	3

	Description	Product Lifecycle	RF Primary Function	Freq Response RF _{min}	Freq Response RF _{max}	Vtune _{min}	Vtune _{max}	Phase Noise @ 100k	Output Power _{typ}	Phase Noise @ 10k	Is _{typ}	Vs _{typ}
HMC466	VCO SMT w/Buffer Amplifier, 6.1 - 6.72 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	6.1G	6.72G	0	10	-101	4.5 dBm	-73	13m	3
HMC505	VCO SMT w/Buffer Amplifier, 6.8 - 7.4 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	6.8G	7.4G	1	11	-106	11 dBm	-80	80m	3
HMC506	VCO SMT w/Buffer Amplifier, 7.8 - 8.7 GHz	RECOMMENDED FOR NEW DESIGNS	VCO	7.8G	8.7G	1	11	-103	14 dBm	-80	77m	3
HMC507	VCO SMT with Fo/2, 6.65 - 7.65 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	6.65G	7.65G	2	13	-115	13 dBm	-90	230m	5
HMC508	VCO SMT with Fo/2, 7.3 - 8.2 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	7.3G	8.2G	2	13	-116	15 dBm	-90	240m	5
HMC509	VCO SMT with Fo/2, 7.8 - 8.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	7.8G	8.8G	2	13	-115	13 dBm	-90	250m	5
HMC510	VCO SMT with Fo/2 & Divide-by-4, 8.45 - 9.55 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	8.45G	9.55G	2	13	-116	13 dBm	-92	315m	5
HMC511	VCO SMT with Fo/2, 9.05 - 10.15 GHz	PRODUCTION	VCO with Output Dividers	9.05G	10.15G	2	13	-115	13 dBm	-88	265m	5
HMC512	VCO with Fo/2 & Divide-by-4 SMT, 9.6 - 10.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	9.6G	10.8G	2	13	-111	9 dBm	-85	330m	5
HMC582	VCO with Fo/2 & Divide-by-4 SMT, 11.1-12.4 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	11.1G	12.4G	2	13	-110	9 dBm	-83	350m	5
HMC583	VCO SMT with Fo/2 & Divide-by-4, 11.5 - 12.8 GHz	PRODUCTION	VCO with Output Dividers	11.5G	12.8G	2	13	-110	11 dBm	-80	350m	5
HMC584	VCO SMT with Fo/2 & Divide-by-4, 12.5 - 13.9 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	12.5G	13.9G	2	13	-110	10 dBm	-81	330m	5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF min	Freq Response RF max	Vtune min	Vtune max	Phase Noise @ 100k	Output Power typ	Phase Noise @ 10k	Is typ	Vs typ
HMC586	Wideband VCO SMT w/Buffer Amplifier, 4 - 8 GHz	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	4G	8G	0	18	-100	5 dBm	-75	55m	5
HMC587	Wideband VCO SMT w/Buffer Amplifier, 5 - 10 GHz	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	5G	10G	0	18	-95	5 dBm	-65	55m	5
HMC632	VCO with Fo/2 & Divide-By-4 SMT, 14.25 - 15.65 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	14.25G	15.65G	2	13	-107	9 dBm	-80	350m	5
HMC732	Wideband VCO SMT w/Buffer Amplifier SMT, 6 - 12 GHz	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	6G	12G	0	23	-95	1 dBm	-65	57m	5
HMC733	Wideband VCO SMT w/Buffer Amplifier, 10 - 20 GHz	RECOMMENDED FOR NEW DESIGNS	Wideband VCOs	10G	20G	-0.25	23	-90	2 dBm	-60	70m	5
HMC734	VCO with Divide-by-4, 8.6 - 10.2 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	8.6G	10.2G	1	13	-100	18 dBm	-70	218m	5
HMC735	VCO with Divide-by-4, 10.5 - 12.2 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	10.5G	12.2G	1	13	-100	17 dBm	-75	217m	5
HMC736	MMIC VCO w/ Half Frequency Output, 14.5 - 15.0 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	14.5G	15G	1	13	-105	9 dBm	-80	150m	4.2
HMC737	MMIC VCO w/ Half Frequency Output, 14.9 - 15.5 GHz	LAST TIME BUY	VCO with Output Dividers	14.9G	15.5G	1	13	-105	9 dBm	-80	150m	4.2
HMC738	MMIC VCO with Half Frequency Output & Divide-by-16, 20.9 - 23.9 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	20.9G	23.9G	1	13	-95	9 dBm	-65	200m	5

	Description	Product Lifecycle	RF Primary Function	Freq Response RF ^{min}	Freq Response RF ^{max}	Vtune ^{min}	Vtune ^{max}	Phase Noise @ 100k	Output Power ^{typ}	Phase Noise @ 10k	Is ^{typ}	Vs ^{typ}
HMC739	MMIC VCO with Half Frequency Output & Divide-by-16, 23.8 - 26.8 GHz	RECOMMENDED FOR NEW DESIGNS	VCO with Output Dividers	23.8G	26.8G	1	13	-93	8 dBm	-64	200m	5

Wireless Sensor Networks

Parts	Description	Product Lifecycle	Software Function	Antenna	Network Size
LTC5800-IPM	SmartMesh IP Wireless 802.15.4e System-on-Chip	PRODUCTION	May be programmed as SmartMesh IP Mote, Manager, or Access Point Mote	pad/lead	-
LTP5901-IPM	SmartMesh IP Wireless 802.15.4e PCBA Module with Chip Antenna	PRODUCTION	May be programmed as SmartMesh IP Mote, Manager, or Access Point Mote	chip antenna	-
LTP5902-IPM	SmartMesh IP Wireless 802.15.4e PCBA Module with Antenna Connector	PRODUCTION	May be programmed as SmartMesh IP Mote, Manager, or Access Point Mote	MMCX antenna connector	-
LTC5800-WHM	SmartMesh WirelessHART Mote-on-Chip	PRODUCTION	Mote	pad/lead	-
LTP5900-WHM	SmartMesh WirelessHART Mote Module (22-pin PCBA)	PRODUCTION	Mote	MMCX antenna	-
LTP5901-WHM	SmartMesh WirelessHART Mote Module with Chip Antenna	PRODUCTION	Mote	chip antenna	-
LTP5902-WHM	SmartMesh WirelessHART Mote Module with Antenna Connector	PRODUCTION	Mote	MMCX antenna	-
LTP5903CEN-WHRB	SmartMesh WirelessHART Embedded Manager	LAST TIME BUY	Manager	2dBi dipole	250 motes
LTP5903CEN-WHRC	SmartMesh WirelessHART Embedded Manager	LAST TIME BUY	Manager	2dBi dipole	500 motes
LTP5903IPC-WHRB	SmartMesh WirelessHART Embedded Manager	LAST TIME BUY	Manager	MMCX antenna	250 motes
LTP5903IPC-WHRC	SmartMesh WirelessHART Embedded Manager	LAST TIME BUY	Manager	MMCX antenna	500 motes

Приемо-передатчики RF Analog Devices, Inc.



AD607ARSZ

Смеситель с одиночной, двойной и тройной балансировкой

Производитель: Analog Devices, Inc.

Корпус: SSOP20

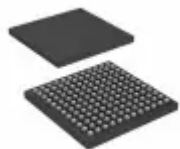


AD608ARZ

Приемник ПЧ/ВЧ

Производитель: Analog Devices, Inc.

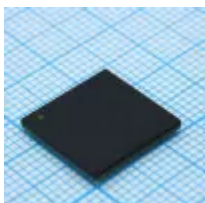
Корпус: SOIC16



AD9361BBCZ

Конфигурируемый радиочастотный приемопередатчик

Производитель: Analog Devices, Inc.

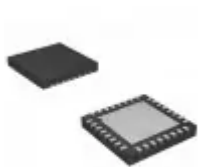


AD9364BBCZ

RF Transceiver 1.3V 144-Pin CSP-BGA T/R

Производитель: Analog Devices, Inc.

Корпус: CSPBGA144-(13x13)

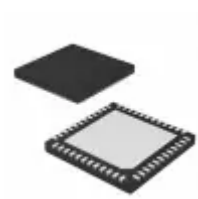


ADF5904ACPZ-RL7

Приемопередатчик 4-х канальный 24ГГц

Производитель: Analog Devices, Inc.

Корпус: LFCSP32-(5x5)

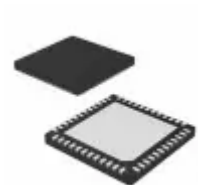


ADF7020BCPZ

Приемопередатчик диапазона ISM

Производитель: Analog Devices, Inc.

Корпус: LFCSP48 EP

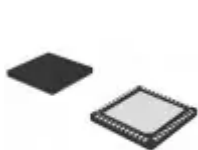


ADF7020BCPZ-RL

Приемопередатчик диапазона ISM

Производитель: Analog Devices, Inc.

Корпус: LFCSP48

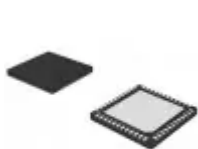


ADF7021BCPZ

RF Transceiver FSK/MSK 3V 48-Pin LFCSP EP T/R

Производитель: Analog Devices, Inc.

Корпус: LFCSP48 EP



ADF7021BCPZ-RL

RF Transceiver FSK/MSK 3V 48-Pin LFCSP EP T/R

Производитель: Analog Devices, Inc.

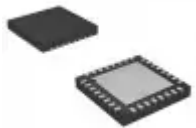
Корпус: LFCSP48 EP



ADF7021BCPZ-RL7

RF Transceiver FSK/MSK 3V 48-Pin LFCSP EP T/R

Производитель: Analog Devices, Inc.

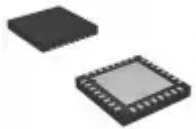


ADF7023BCPZ

Высококачественный, малопотребляющий приемопередатчик сигналов FSK/GFSK/OOK/MSK/GMSK диапазона ISM

Производитель: Analog Devices, Inc.

Корпус: LFCSP32 EP



ADF7023BCPZ-RL

Высококачественный, малопотребляющий приемопередатчик сигналов FSK/GFSK/OOK/MSK/GMSK диапазона ISM

Производитель: Analog Devices, Inc.

Корпус: LFCSP32 EP



ADM3311EARSZ-REEL

Интерфейс RS-232 3.3V RS232 15кВ защита ESD

Производитель: Analog Devices, Inc.

Корпус: SSOP28

Синтезаторы частоты - DDS Analog Devices, Inc.



AD5930YRUZ

Генератор колебаний с программируемой функцией развертки по частоте и импульсным режимом

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD5930YRUZ-REEL7

Генератор колебаний с программируемой функцией развертки по частоте и импульсным режимом

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD5932YRUZ

Программируемый генератор колебаний с однократным сканированием

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD5932YRUZ-REEL7

Программируемый генератор колебаний с однократным сканированием

Производитель: Analog Devices, Inc.

Корпус: TSSOP16

**AD5933YRSZ**

12-разрядный анализатор цепей/преобразователь импеданса с быстродействием 1 MSPS

Производитель: Analog Devices, Inc.

Корпус: SSOP16

**AD5933YRSZ-REEL7**

12-разрядный анализатор цепей/преобразователь импеданса с быстродействием 1 MSPS

Производитель: Analog Devices, Inc.

Корпус: SSOP16

**AD5934YRSZ**

12-разрядный анализатор цепей/преобразователь импеданса с быстродействием 250 kSPS

Производитель: Analog Devices, Inc.

Корпус: SSOP16

**AD5934YRSZ-REEL7**

12-разрядный анализатор цепей/преобразователь импеданса с быстродействием 250 kSPS

Производитель: Analog Devices, Inc.

Корпус: SSOP16

**AD9830ASTZ**

Генератор с цифровым управлением, таблица преобразования фазы в амплитуду синуса и 10-разрядный ЦАП, интегрированные на одном КМОП кристалле

Производитель: Analog Devices, Inc.

Корпус: LQFP48



AD9830ASTZ-REEL

Генератор с цифровым управлением, таблица преобразования фазы в амплитуду синуса и 10-разрядный ЦАП, интегрированные на одном КМОП кристалле

Производитель: Analog Devices, Inc.

Корпус: LQFP48



AD9831ASTZ

Синтезатор прямого цифрового синтеза с тактовой частотой 25 МГц, интегрированным 10-разрядным ЦАП и параллельной загрузкой данных

Производитель: Analog Devices, Inc.

Корпус: LQFP48

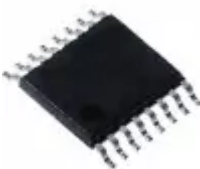


AD9831ASTZ-REEL

Синтезатор прямого цифрового синтеза с тактовой частотой 25 МГц, интегрированным 10-разрядным ЦАП и параллельной загрузкой данных

Производитель: Analog Devices, Inc.

Корпус: LQFP48



AD9832BRUZ

Синтезатор прямого цифрового синтеза с тактовой частотой 25 МГц, интегрированным 10-разрядным ЦАП и последовательным интерфейсом

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD9832BRUZ-REEL

Синтезатор прямого цифрового синтеза с тактовой частотой 25 МГц, интегрированным 10-разрядным ЦАП и последовательным интерфейсом

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD9832BRUZ-REEL7

Синтезатор прямого цифрового синтеза с тактовой частотой 25 МГц, интегрированным 10-разрядным ЦАП и последовательным интерфейсом

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD9833BRMZ

Синтезатор прямого цифр.синтеза, 10бит, 25MSPS, SPI, 28бит упр.слово, Uвых=38...650мВ, Pп=20мВт, Iп.спящ=0.5мА, Iп=4.5мА, Uп=2.3...5.5В, -40...+105°C

Производитель: Analog Devices, Inc.

Корпус: mSOIC10



AD9833BRMZ

Программируемый генератор колебаний с потребляемой мощностью 12.65 мВт и напряжением питания от 2.3 В до +5.5 В

Производитель: Analog Devices, Inc.

Корпус: MSOP10



AD9833BRMZ-REEL

IC WAVEFORM GEN PROG 10MSOP

Производитель: Analog Devices, Inc.

Корпус: MSOP10



AD9833BRMZ-REEL7

Программируемый генератор колебаний с потребляемой мощностью 12.65 мВт и напряжением питания от 2.3 В до +5.5 В

Производитель: Analog Devices, Inc.

Корпус: MSOP10



AD9834BRUZ

Полнофункциональный синтезатор прямого цифрового синтеза с быстродействием 75 МГц потребляемой мощностью 20 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD9834BRUZ-REEL

Полнофункциональный синтезатор прямого цифрового синтеза с быстродействием 75 МГц потребляемой мощностью 20 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD9834BRUZ-REEL7

Полнофункциональный синтезатор прямого цифрового синтеза с быстродействием 75 МГц потребляемой мощностью 20 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD9834CRUZ

Полнофункциональный синтезатор прямого цифрового синтеза с быстродействием 75 МГц потребляемой мощностью 20 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD9834CRUZ-REEL7

Полнофункциональный синтезатор прямого цифрового синтеза с быстродействием 75 МГц потребляемой мощностью 20 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: TSSOP20



AD9835BRUZ

Синтезатор прямого цифрового синтеза с тактовой частотой 50 МГц / Генератор сигналов

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD9835BRUZ-REEL7

Синтезатор прямого цифрового синтеза с тактовой частотой 50 МГц / Генератор сигналов

Производитель: Analog Devices, Inc.

Корпус: TSSOP16

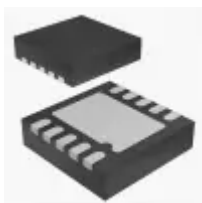


AD9835BRUZ-REEL7

Синтезатор прямого цифрового синтеза с тактовой частотой 50 МГц / Генератор сигналов

Производитель: Analog Devices, Inc.

Корпус: TSSOP16



AD9837BCPZ-RL7

Программируемый генератор колебаний с потребляемой мощностью 8.5 мВт и напряжением питания от 2.3 В до 5.5 В

Производитель: Analog Devices, Inc.

Корпус: LFCSP-WD10



AD9845BJSTZ

IC CCD SIGNAL PROC 12BIT 48-LQFP

Производитель: Analog Devices, Inc.

Корпус: 48-LQFP (7x7)



AD9850BRSZ

Полнофункциональный КМОП синтезатор цифрового прямого синтеза с тактовой частотой 125 МГц

Производитель: Analog Devices, Inc.

Корпус: SSOP28



AD9850BRSZ

Полнофункциональный КМОП синтезатор прямого цифрового синтеза с тактовой частотой 125 МГц

Производитель: Analog Devices, Inc.

Корпус: SSOP28



AD9850BRSZ-REEL

Полнофункциональный КМОП синтезатор прямого цифрового синтеза с тактовой частотой 125 МГц

Производитель: Analog Devices, Inc.

Корпус: SSOP28



AD9851BRSZ

Полнофункциональный синтезатор прямого цифрового синтеза с тактовой частотой 180 МГц

Производитель: Analog Devices, Inc.

Корпус: SSOP28



AD9851BRSZRL

Полнофункциональный синтезатор прямого цифрового синтеза с тактовой частотой 180 МГц

Производитель: Analog Devices, Inc.

Корпус: SSOP28



AD9852ASTZ

Полнофункциональный КМОП синтезатор прямого цифрового синтеза с быстродействием 300 MSPS

Производитель: Analog Devices, Inc.

Корпус: LQFP80(14x14)



AD9854ASTZ

Полнофункциональный синтезатор прямого цифрового синтеза

Производитель: Analog Devices, Inc.

Корпус: LQFP80(14x14)

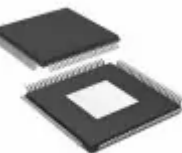


AD9854ASVZ

Полнофункциональный синтезатор прямого цифрового синтеза

Производитель: Analog Devices, Inc.

Корпус: TQFP80-(14x14)



AD9858BSVZ

Синтезатор прямого цифрового синтеза с быстродействием 1 GSPS

Производитель: Analog Devices, Inc.

Корпус: TQFP-EP100-(14x14)



AD9859YSVZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 10-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP

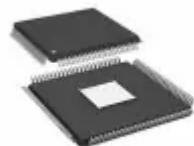


AD9859YSVZ-REEL7

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 10-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP

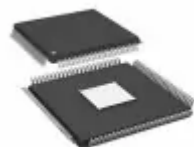


AD9910BSVZ

14-разрядный КМОП синтезатор прямого цифрового синтеза с быстродействием 1 GSPS и напряжением питания 3.3 В

Производитель: Analog Devices, Inc.

Корпус: 100-TQFP

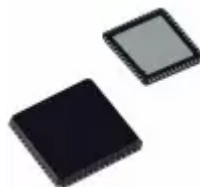


AD9910BSVZ-REEL

14-разрядный КМОП синтезатор прямого цифрового синтеза с быстродействием 1 GSPS и напряжением питания 3.3 В

Производитель: Analog Devices, Inc.

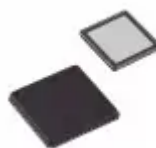
Корпус: TQFP-EP100-(14x14)



AD9911BCPZ

IC DDS 500MSPS DAC 10BIT 56LFCSP

Производитель: Analog Devices, Inc.

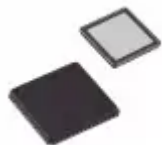


AD9912ABCPZ

Синтезатор прямого цифрового синтеза с быстродействием 1 GSPS и 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ64

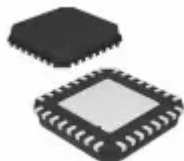


AD9912ABCPZ-REEL7

Синтезатор прямого цифрового синтеза с быстродействием 1 GSPS и 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ64

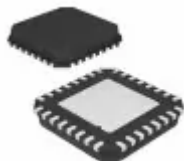


AD9913BCPZ

КМОП синтезатор прямого цифрового синтеза с напряжением питания 1.8 В и 10-разрядным ЦАП с быстродействием 250 MSPS

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ32



AD9913BCPZ-REEL7

КМОП синтезатор прямого цифрового синтеза с напряжением питания 1.8 В и 10-разрядным ЦАП с быстродействием 250 MSPS

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ32



AD9951YSVZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48



AD9952YSVZ

Синтезатр частоты 400МГц 14-бит ЦАП электропитание 1.8В 48-TQFP

Производитель: Analog Devices, Inc.

Корпус: TQFP48



AD9952YSVZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP



AD9952YSVZ-REEL7

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP



AD9953YSVZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP



AD9953YSVZ-REEL7

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP



AD9954YSVZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP

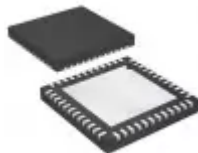


AD9954YSVZ-REEL7

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП и напряжением питания 1.8 В

Производитель: Analog Devices, Inc.

Корпус: TQFP48-EP



AD9956YCPZ

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ48

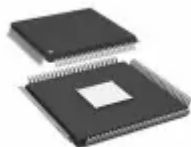


AD9956YCPZ-REEL7

КМОП синтезатор прямого цифрового синтеза с быстродействием 400 MSPS, 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ48

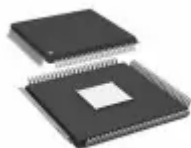


AD9957BSVZ

Квадратурный цифровой преобразователь с повышением частоты с быстродействием 1 GSPS, 18-разрядным трактом цифровой обработки квадратурных сигналов и 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: TQFP100

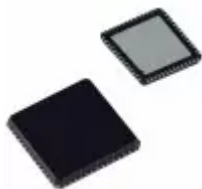


AD9957BSVZ-REEL

Квадратурный цифровой преобразователь с повышением частоты с быстродействием 1 GSPS, 18-разрядным трактом цифровой обработки квадратурных сигналов и 14-разрядным ЦАП

Производитель: Analog Devices, Inc.

Корпус: 100-TQFP

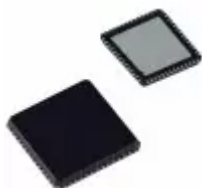


AD9958BCPZ-REEL7

Двухканальный синтезатор прямого цифрового синтеза с быстродействием 500 MSPS и 10-разрядными ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ56

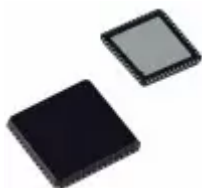


AD9959BCPZ

Четырехканальный синтезатор прямого цифрового синтеза с быстродействием 500 MSPS и 10-разрядными ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ56

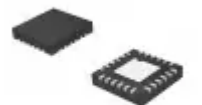


AD9959BCPZ-REEL7

Четырехканальный синтезатор прямого цифрового синтеза с быстродействием 500 MSPS и 10-разрядными ЦАП

Производитель: Analog Devices, Inc.

Корпус: LFCSP-VQ56



ADF4150BCPZ

IC PLL SYNTHESIZER 24-LFCSP

Производитель: Analog Devices, Inc.

Корпус: 24-LFCSP-WQ (4x4)



HMC701LP6CE

IC SYNTHESIZER W/SWEEPER 40-QFN

Производитель: Analog Devices, Inc.

Корпус: 40-QFN (6x6)



HMC767LP6CE

Производитель: Analog Devices, Inc.



HMC783LP6CE

IC PLL W/VCO FRACT-N 40-QFN

Производитель: Analog Devices, Inc.

Корпус: 40-SMT (6x6)



HMC828LP6CE

IC PLL W/VCO FRACTIONAL-N 40-QFN

Производитель: Analog Devices, Inc.

Корпус: 40-QFN Exposed Pad (6x6)



HMC983LP5E

Производитель: Analog Devices, Inc.

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