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# A<sup>2</sup>B Audio Bus

| Parts   | Description                                                                                  | Product Lifecycle               | Main / Sub | Sub Node Capability          | Interface Protocol      | Data Rate <sup>max</sup> | Number of Nodes | Max Number of Audio Channels | Bus Power Capability <sup>typ</sup> | Max Bus Length | Max Internode Distance |
|---------|----------------------------------------------------------------------------------------------|---------------------------------|------------|------------------------------|-------------------------|--------------------------|-----------------|------------------------------|-------------------------------------|----------------|------------------------|
| AD2430W | Automotive Audio Bus (A2B) Transceiver                                                       | RECOMMENDED FOR NEW DESIGNS     | Main, Sub  | Last in Line only            | A2B, I2C, I2S, PDM      | 50M                      | 3               | Up to 7 Total                | 700m                                | 80             | 15                     |
| AD2438W | Automotive Audio Bus (A2B) Transceiver                                                       | RECOMMENDED FOR NEW DESIGNS     | Main       | -                            | A2B, I2C, I2S, PDM      | 50M                      | 17              | 32UP/32DOWN                  | 700m                                | 80             | 15                     |
| AD2431W | Automotive Audio Bus (A2B) Transceiver                                                       | RECOMMENDED FOR NEW DESIGNS     | Sub        | End-Point Only               | A2B, I2C, PDM           | 50M                      | 17              | 4UP                          | -                                   | 80             | 15                     |
| AD2432W | Automotive Audio Bus A2B Transceiver                                                         | RECOMMENDED FOR NEW DESIGNS     | Sub        | Mid-Point Capable            | A2B, I2C, PDM           | 50M                      | 17              | 32UP/32DOWN                  | 50                                  | 80             | 15                     |
| AD2433W | Automotive Audio Bus A2B Transceiver                                                         | RECOMMENDED FOR NEW DESIGNS     | Main, Sub  | Mid-Point Capable            | A2B, I2C, I2S, PDM, SPI | 50M                      | 17              | 32UP/32DOWN                  | 3                                   | 80             | 15                     |
| AD2435W | Automotive Audio Bus A2B Transceiver                                                         | RECOMMENDED FOR NEW DESIGNS     | Main, Sub  | Mid-Point Capable            | A2B, I2C, I2S, PDM, SPI | 50M                      | 17              | 32UP/32DOWN                  | 50                                  | 80             | 15                     |
| AD2426  | A2B Last-in-Line Subordinate 4xPDM XCVR                                                      | NOT RECOMMENDED FOR NEW DESIGNS | Sub        | Last in Line only            | A2B, I2C, PDM           | 50M                      | 11              | -                            | -                                   | -              | -                      |
| AD2428  | A2B Main/Subordinate 4xPDM XCVR w I2S/TDM                                                    | RECOMMENDED FOR NEW DESIGNS     | Main, Sub  | Mid and Last in Line Capable | A2B, I2C, I2S, PDM      | 50M                      | 11              | -                            | -                                   | -              | -                      |
| AD2421W | Enhanced Automotive Audio Bus® (A2B®) Transceiver supporting Slave operation as an end point | NOT RECOMMENDED FOR NEW DESIGNS | Sub        | End-Point Only               | A2B                     | 50M                      | 1               | 4UP                          | -                                   | 40             | 15                     |
| AD2422W | Enhanced Automotive Audio Bus® (A2B®) Transceiver supporting Slave operation                 | NOT RECOMMENDED FOR NEW DESIGNS | Sub        | Mid-Point Capable            | A2B                     | 50M                      | 2               | 32UP/32DOWN                  | 3                                   | 40             | 15                     |

|         | Description                                                                                  | Product Lifecycle               | Main / Sub | Sub Node Capability | Interface Protocol | Data Rate <sup>max</sup> | Number of Nodes | Max Number of Audio Channels | Bus Power Capability <sup>typ</sup> | Max Bus Length | Max Internode Distance |
|---------|----------------------------------------------------------------------------------------------|---------------------------------|------------|---------------------|--------------------|--------------------------|-----------------|------------------------------|-------------------------------------|----------------|------------------------|
| AD2425W | Enhanced Automotive Audio Bus® (A2B®) Transceiver supporting both Master and Slave operation | NOT RECOMMENDED FOR NEW DESIGNS | Main, Sub  | Mid-Point Capable   | A2B                | 50M                      | 11              | 32UP/32DOWN                  | 3                                   | 40             | 15                     |
| AD2427  | A2B Mid-Line Subordinate 4xPDM XCVR                                                          | RECOMMENDED FOR NEW DESIGNS     | Sub        | Mid Line Capable    | A2B, I2C, PDM      | 50M                      | 11              | -                            | -                                   | -              | -                      |

# Audio A/D Converters

| Parts    | Description                                                                     | Product Lifecycle               | Channels | Resolution | Update Rate | DNR typ | THD+N typ | Oversampling Rate | Vs+ min | Vs+ max | Power typ |
|----------|---------------------------------------------------------------------------------|---------------------------------|----------|------------|-------------|---------|-----------|-------------------|---------|---------|-----------|
| ADAU7112 | Stereo PDM to I2S/TDM Converter                                                 | RECOMMENDED FOR NEW DESIGNS     | 2        | 24         | -           | 126     | -         | 64                | 1.1     | 1.98    | 6m        |
| ADAU7118 | 8 Channel, PDM to I2S/TDM Converter                                             | RECOMMENDED FOR NEW DESIGNS     | 8        | 24         | -           | 126     | -         | -                 | 1.7     | 3.63    | 8.76m     |
| AD7768-1 | DC to 204 kHz, Dynamic Signal Analysis, Precision 24-Bit ADC with Power Scaling | RECOMMENDED FOR NEW DESIGNS     | 1        | 24         | 192k        | 115     | 107.3     | -                 | 3       | 5.5     | 26.4m     |
| AD7768-4 | 4-Channel, 24-Bit, Simultaneous Sampling ADC, Power Scaling, 110.8 kHz BW       | RECOMMENDED FOR NEW DESIGNS     | 4        | 24         | 192k        | 108     | 107.5     | -                 | 3       | 5.5     | 235m      |
| AD7768   | 8-Channel, 24-Bit, Simultaneous Sampling ADC, Power Scaling, 110.8 kHz BW       | RECOMMENDED FOR NEW DESIGNS     | 8        | 24         | 192k        | 108     | 107.5     | -                 | 3       | 5.5     | 412m      |
| ADAU1979 | Quad Analog-to-Digital Converter (ADC)                                          | PRODUCTION                      | 4        | 24         | 192k        | 109     | -95       | 128               | 3       | 3.6     | 48m       |
| ADAU7002 | Stereo PDM-to-I2S or TDM Conversion IC                                          | PRODUCTION                      | 2        | -          | 96k         | 110     | -         | 64                | 1.62    | 3.6     | 4.4m      |
| ADAU1978 | Quad ADC (2V Input)                                                             | PRODUCTION                      | 4        | 24         | 192k        | 109     | -95       | 128               | 3       | 3.6     | 48m       |
| ADAU1977 | Quad ADC with Diagnostics (10V Input)                                           | PRODUCTION                      | 4        | 24         | 192k        | 109     | -95       | 128               | 3       | 3.6     | 265m      |
| AD1974   | 4 ADC with PLL, 192 kHz, 24-Bit ADC                                             | PRODUCTION                      | 4        | 24         | 192k        | 102     | -96       | 128               | 3       | 3.6     | 429m      |
| AD1871   | Stereo Audio, 24-bit, 96kHz, Multi-bit Sigma Delta ADC                          | NOT RECOMMENDED FOR NEW DESIGNS | 2        | 24         | 96k         | 105     | -85       | 128               | 4.5     | 5.5     | 295m      |
| AD1877   | Single-Supply 16-Bit (Sigma Delta) Stereo ADC                                   | NOT RECOMMENDED FOR NEW DESIGNS | 2        | 16         | 48          | 94      | -90       | 64                | 4.75    | 5.25    | 255       |

# Audio Amplifiers

| Parts            | Description                                                                               | Product Lifecycle           | Audio Primary Function                  | # of Channels | Class        | Is typ | Vs+ min | Vs+ max |
|------------------|-------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------------|---------------|--------------|--------|---------|---------|
| <b>MAX98397</b>  | 28V Digital Input, Class-DG Amplifier with IVSENSE, Ultra-Low IQ, and Brownout Prevention | RECOMMENDED FOR NEW DESIGNS | Audio Power Amplifier                   | 1             | DG           | -      | -       | -       |
| <b>MAX98388</b>  | Digital Input Class-D Amplifier with IV Feedback and Brownout Protection                  | RECOMMENDED FOR NEW DESIGNS | Class-D Amp                             | 1             | D            | 1.4m   | 2.3     | 10      |
| <b>MAX98389</b>  | Digital Input Class-D Amplifier with IV Feedback and Brownout Protection                  | RECOMMENDED FOR NEW DESIGNS | Class-D Amp                             | 1             | D            | 1.4m   | 2.3     | 10      |
| <b>MAX98363</b>  | Tiny, Cost-Effective, SoundWire, Class D Amplifier                                        | RECOMMENDED FOR NEW DESIGNS | Class-D Amp                             | 1             | D            | 1.8m   | 2.5     | 5.5     |
| <b>MAX98380</b>  | Small, Boosted, Digital Input Class-D Amplifier                                           | RECOMMENDED FOR NEW DESIGNS | Speaker Amplifier                       | 1             | Boosted/D, D | 1.5m   | 3       | 5.5     |
| <b>SSM6515</b>   | Ultra Low Power, Class-D Audio Amplifier                                                  | RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Headphone Driver, Portable | 1             | D            | 856μ   | 1.7     | 1.98    |
| <b>MAX98361</b>  | Tiny, Cost-Effective, Plug-and-Play Digital Class-D Amplifier                             | RECOMMENDED FOR NEW DESIGNS | Speaker Amplifier                       | 1             | D            | 2m     | 2.5     | 5.5     |
| <b>MAX98365</b>  | Tiny, Cost-Effective, 14V Plug-and-Play Digital Class-D Amplifier                         | RECOMMENDED FOR NEW DESIGNS | Speaker Amplifier                       | 1             | D            | 2.145m | 3       | 14      |
| <b>MAX98396</b>  | 20V Digital Input Class-DG Amplifier with I/V Sense and Brownout Prevention               | PRODUCTION                  | Speaker Amplifier                       | 1             | DG           | 2μ     | 3       | 20      |
| <b>MAX98395</b>  | 11.7W Digital Input Class DG Amplifier with I/V Sense and Ultra-Low Quiescent Power       | PRODUCTION                  | Speaker Amplifier                       | 1             | Class DG     | 1.7m   | 3       | 14      |
| <b>SSM3582A</b>  | 2×, 31.76 W, Digital Input, Filterless Stereo Class D Audio Amplifier                     | RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier          | 1             | D            | 12.34m | 4.5     | 16      |
| <b>MAX98360A</b> | Tiny, Cost-Effective, Plug-and-Play Digital Class-D Amplifier                             | PRODUCTION                  | Speaker Amplifier                       | 1             | D            | 2m     | 2.5     | 5.5     |
| <b>MAX98360B</b> | Tiny, Cost-Effective, Plug-and-Play Digital Class-D Amplifier                             | PRODUCTION                  | Speaker Amplifier                       | 1             | D            | 2m     | 2.5     | 5.5     |

|                  | Description                                                             | Product Lifecycle               | Audio Primary Function         | # of Channels | Class                       | Is typ | Vs+ min | Vs+ max |
|------------------|-------------------------------------------------------------------------|---------------------------------|--------------------------------|---------------|-----------------------------|--------|---------|---------|
| <b>MAX98360C</b> | Tiny, Cost-Effective, Plug-and-Play Digital Class-D Amplifier           | PRODUCTION                      | Speaker Amplifier              | 1             | D                           | 2m     | 2.5     | 5.5     |
| <b>MAX98360D</b> | Tiny, Cost-Effective, Plug-and-Play Digital Class-D Amplifier           | PRODUCTION                      | Speaker Amplifier              | 1             | D                           | 2m     | 2.5     | 5.5     |
| <b>MAX98390</b>  | Boosted Class-D Amplifier with Integrated Dynamic Speaker Management    | PRODUCTION                      | Speaker Amplifier              | 1             | Boosted/D, Boosted/G, D, DG | 2.5m   | 2.6     | 5.5     |
| <b>MAX98374</b>  | Digital Input Class D Speaker Amplifier with DHT                        | RECOMMENDED FOR NEW DESIGNS     | Speaker Amplifier              | 1             | D                           | 6.5m   | 5.5     | 16      |
| <b>SSM3525</b>   | 30 W, Filterless, Class-D, Output Sensing Audio Amplifier               | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | D                           | 6.62m  | 4.5     | 17      |
| <b>SSM6322</b>   | High Fidelity, Low Power, Integrated Stereo Audio Amplifier             | RECOMMENDED FOR NEW DESIGNS     | Headphone Driver               | -             | -                           | 6m     | 6.6     | 12.6    |
| <b>SSM3582</b>   | 2×, 31.76 W, Digital Input, Filterless Stereo Class-D Audio Amplifier   | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier | 1             | D                           | 12.34m | 4.5     | 16      |
| <b>MAX98372</b>  | Digital Input Class D Amplifier with DHT and Brownout Protection        | RECOMMENDED FOR NEW DESIGNS     | Speaker Amplifier              | 1             | D                           | 8.4m   | 5.5     | 18      |
| <b>SSM4567</b>   | Digital 2.5 W, 5.1 V, Boost Class-D Audio Amplifier with Output Sensing | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | Boosted/D, D                | 6m     | 2.5     | 5.2     |
| <b>MAX98357A</b> | Tiny, Low-Cost, PCM Class D Amplifier with Class AB Performance         | PRODUCTION                      | Speaker Amplifier              | 1             | D                           | 2.5m   | 2.5     | 5.5     |
| <b>MAX98357B</b> | Tiny, Low-Cost, PCM Class D Amplifier with Class AB Performance         | PRODUCTION                      | Speaker Amplifier              | 1             | D                           | 2.5m   | 2.5     | 5.5     |
| <b>MAX98358</b>  | PDM Input Class D Audio Power Amplifier                                 | PRODUCTION                      | Speaker Amplifier              | 1             | D                           | 1.8m   | 2.5     | 5.5     |
| <b>SSM2537</b>   | PDM Digital Input, Mono 2.5 W Class D Audio Amplifier                   | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | D                           | 1.4m   | 2.5     | 5.5     |
| <b>SSM2519</b>   | Digital Input 2 W Class-D Audio Power Amplifier                         | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier | 1             | D                           | 2.64m  | 1.5     | 3.6     |
| <b>SSM2529</b>   | Digital Input, Mono 2 W, Class-D Audio Power Amplifier                  | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | D                           | 3m     | 2.5     | 5.5     |

|                  | Description                                                                                | Product Lifecycle               | Audio Primary Function          | # of Channels | Class        | Is typ | Vs+ min | Vs+ max |
|------------------|--------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------|--------------|--------|---------|---------|
| <b>SSM4321</b>   | Mono 2.9 W Class-D Audio Amplifier with Digital Current and Voltage Output                 | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier  | 1             | D            | 3.8m   | 2.5     | 5.5     |
| <b>SSM3302</b>   | 2 ×10 W Filterless Class-D Stereo Audio Amplifier                                          | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D            | 12.2m  | 7       | 18      |
| <b>MAX13335E</b> | Dual Automotive Differential Audio Receivers with I <sup>2</sup> C Control and Diagnostics | PRODUCTION                      | Audio Line Driver               | -             | -            | -      | 3.3     | 5       |
| <b>MAX13336E</b> | Dual Automotive Differential Audio Receivers with I <sup>2</sup> C Control and Diagnostics | PRODUCTION                      | Audio Line Driver               | -             | -            | -      | 3.3     | 5       |
| <b>MAX98502</b>  | Boosted 2.2W Class D Amplifier with Automatic Level Control                                | PRODUCTION                      | Speaker Amplifier               | 1             | Boosted/D, D | 3.7m   | 2.5     | 5.5     |
| <b>SSM2518</b>   | Digital Input Stereo, 2 W, Class-D Audio Power Amplifier                                   | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D            | 7.7m   | 2.5     | 5.5     |
| <b>MAX97003</b>  | High-Efficiency, Low-Noise Audio Subsystem                                                 | RECOMMENDED FOR NEW DESIGNS     | Headphone and Speaker Amplifier | -             | D, H         | 2m     | 1.6     | 2       |
| <b>MAX98307</b>  | 3.3W Mono Class DG Multilevel Audio Amplifier                                              | PRODUCTION                      | Speaker Amplifier               | 1             | D, DG        | 1.85m  | 2.6     | 5.25    |
| <b>MAX98309</b>  | Mono 1.4W Class AB Audio Amplifiers                                                        | PRODUCTION                      | Speaker Amplifier               | 1             | AB           | 1.2m   | 2.5     | 5.5     |
| <b>MAX98310</b>  | Mono 1.4W Class AB Audio Amplifiers                                                        | PRODUCTION                      | Speaker Amplifier               | 1             | AB           | 1.2m   | 2.5     | 5.5     |
| <b>MAX98306</b>  | Stereo 3.7W Class D Amplifier                                                              | PRODUCTION                      | Speaker Amplifier               | 2             | D            | 2m     | 2.6     | 5.5     |
| <b>SSM2377</b>   | Filterless, High Efficiency, Mono 2.5 W Class-D Audio Amplifier                            | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D            | 2m     | 2.5     | 5.5     |
| <b>MAX97220A</b> | Differential Input DirectDrive Line Drivers/Headphone Amplifiers                           | PRODUCTION                      | Headphone Amplifier             | -             | -            | 5m     | 2.5     | 5.5     |
| <b>MAX97220B</b> | Differential Input DirectDrive Line Drivers/Headphone Amplifiers                           | PRODUCTION                      | Headphone Amplifier             | -             | -            | 5m     | 2.5     | 5.5     |
| <b>MAX97220C</b> | Differential Input DirectDrive Line Drivers/Headphone Amplifiers                           | PRODUCTION                      | Headphone Amplifier             | -             | -            | 5m     | 2.5     | 5.5     |

|                  | Description                                                                         | Product Lifecycle               | Audio Primary Function         | # of Channels | Class | Is typ | Vs+ min | Vs+ max |
|------------------|-------------------------------------------------------------------------------------|---------------------------------|--------------------------------|---------------|-------|--------|---------|---------|
| <b>MAX97220D</b> | Differential Input DirectDrive Line Drivers/Headphone Amplifiers                    | PRODUCTION                      | Headphone Amplifier            | -             | -     | 5m     | 2.5     | 5.5     |
| <b>MAX97220E</b> | Differential Input DirectDrive Line Drivers/Headphone Amplifiers                    | PRODUCTION                      | Headphone Amplifier            | -             | -     | 5m     | 2.5     | 5.5     |
| <b>MAX98304</b>  | Mono 3.2W Class D Amplifier                                                         | PRODUCTION                      | Speaker Amplifier              | 1             | D     | 950μ   | 2.5     | 5.5     |
| <b>MAX98303</b>  | Stereo 3.1W Class D Amplifier                                                       | PRODUCTION                      | Speaker Amplifier              | 2             | D     | 2m     | 2.6     | 5.5     |
| <b>MAX98300</b>  | Mono 2W Class D Amplifier                                                           | PRODUCTION                      | Speaker Amplifier              | 1             | D     | 1.1m   | 2.6     | 5.5     |
| <b>MAX98400A</b> | Stereo, High-Power, Class D Amplifier                                               | PRODUCTION                      | Speaker Amplifier              | 2             | D     | 10m    | 8       | 28      |
| <b>MAX98400B</b> | Stereo, High-Power, Class D Amplifier                                               | PRODUCTION                      | Speaker Amplifier              | 2             | D     | 10m    | 8       | 28      |
| <b>SSM2375</b>   | Filterless High Efficiency Mono 3 W Class-D Audio Amplifier                         | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | D     | 2.7m   | 2.5     | 5.5     |
| <b>SSM2380</b>   | 2 x 2 W, Filterless, Stereo, Class-D Audio Amplifier with ALC + I2C                 | PRODUCTION                      | Class-D Amp, Speaker Amplifier | 1             | D     | 6m     | 2.5     | 5.5     |
| <b>MAX97200</b>  | Low-Power, Low-Offset, Dual Mode, Class H DirectDrive Headphone Amplifier           | PRODUCTION                      | Headphone Amplifier            | -             | H     | 1.15m  | 1.62    | 1.98    |
| <b>MAX13325</b>  | Dual Automotive, Audio Line Drivers with I²C Control and Diagnostic                 | PRODUCTION                      | Audio Line Driver              | -             | -     | -      | 4.5     | 18      |
| <b>MAX13326</b>  | Dual Automotive, Audio Line Drivers with I²C Control and Diagnostic                 | PRODUCTION                      | Audio Line Driver              | -             | -     | -      | 4.5     | 18      |
| <b>SSM2517</b>   | PDM Digital Input, Mono 2.4 W Class-D Audio Amplifier                               | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier | 1             | D     | 3.2m   | 2.5     | 5.5     |
| <b>MAX9820</b>   | DirectDrive Headphone Amplifier with External Gain                                  | PRODUCTION                      | Headphone Amplifier            | -             | H     | 3m     | 2.7     | 5.5     |
| <b>MAX13330</b>  | Automotive DirectDrive® Headphone Amplifiers with Output Protection and Diagnostics | PRODUCTION                      | Headphone Amplifier            | -             | H     | 10m    | 4       | 5.5     |

|                 | Description                                                                              | Product Lifecycle               | Audio Primary Function          | # of Channels | Class     | Is typ | Vs+ min | Vs+ max |
|-----------------|------------------------------------------------------------------------------------------|---------------------------------|---------------------------------|---------------|-----------|--------|---------|---------|
| <b>MAX13331</b> | Automotive DirectDrive® Headphone Amplifiers with Output Protection and Diagnostics      | PRODUCTION                      | Headphone Amplifier             | -             | H         | 10m    | 4       | 5.5     |
| <b>MAX9737</b>  | Mono 7W Class D Amplifier                                                                | PRODUCTION                      | Speaker Amplifier               | 1             | D         | 15m    | 8       | 28      |
| <b>MAX9791</b>  | Windows Vista-Compliant Class D Speaker Amplifiers with DirectDrive Headphone Amplifiers | PRODUCTION                      | Headphone and Speaker Amplifier | -             | D, H      | 250μ   | 2.7     | 5.5     |
| <b>MAX9792</b>  | Windows Vista-Compliant Class D Speaker Amplifiers with DirectDrive Headphone Amplifiers | PRODUCTION                      | Headphone and Speaker Amplifier | -             | D, H      | 5.5m   | 2.7     | -       |
| <b>SSM2319</b>  | Filterless, High Efficiency, Mono 3 W Class-D Audio Amplifier                            | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier  | 1             | D         | 3.2m   | 2.5     | 5.5     |
| <b>SSM2317</b>  | Filterless High Efficiency Mono 3 W Class-D Audio Amplifier                              | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D         | 3.2m   | 2.5     | 5.5     |
| <b>MAX9744</b>  | 20W Stereo Class D Speaker Amplifier with Volume Control                                 | PRODUCTION                      | Speaker Amplifier               | 2             | D         | -      | 4.5     | 14      |
| <b>SSM2305</b>  | Filterless, High Efficiency, Mono 2.8 W, Class-D Audio Amplifier                         | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D         | 2.8m   | 2.5     | 5.5     |
| <b>SSM2315</b>  | Filterless, High Efficiency, Mono 3 W Class-D Audio Amplifier                            | PRODUCTION                      | Class-D Amp, Speaker Amplifier  | 1             | D         | 2.8m   | 2.5     | 5.5     |
| <b>MAX9738</b>  | 16VP-P Class G Amplifier with Inverting Boost Converter                                  | PRODUCTION                      | Speaker Amplifier               | 1             | Boosted/G | 16.5m  | 2.7     | 5.5     |
| <b>MAX9736</b>  | Mono/Stereo High-Power Class D Amplifier                                                 | PRODUCTION                      | -                               | 2             | D         | 30m    | 8       | 25      |
| <b>MAX9768</b>  | 10W Mono Class D Speaker Amplifier with Volume Control                                   | PRODUCTION                      | Speaker Amplifier               | 1             | D         | 11m    | 4.5     | 14      |
| <b>SSM2306</b>  | 2 W, Filterless, Class-D Stereo Audio Amplifier                                          | NOT RECOMMENDED FOR NEW DESIGNS | Class-D Amp, Speaker Amplifier  | 1             | D         | 5.7m   | 2.5     | 5       |
| <b>MAX9814</b>  | Microphone Amplifier with AGC and Low-Noise Microphone Bias                              | PRODUCTION                      | Microphone Pre-Amplifier        | -             | -         | 3.1m   | 2.7     | 5.5     |

|                | Description                                                                   | Product Lifecycle | Audio Primary Function                                | # of Channels | Class     | Is typ | Vs+ min | Vs+ max |
|----------------|-------------------------------------------------------------------------------|-------------------|-------------------------------------------------------|---------------|-----------|--------|---------|---------|
| <b>MAX9742</b> | Single-/Dual-Supply, Stereo 16W, Class D Amplifier with Differential Inputs   | PRODUCTION        | -                                                     | 2             | D         | 15m    | 20      | 40      |
| <b>MAX9788</b> | 14VP-P, Class G Ceramic Speaker Driver                                        | PRODUCTION        | Speaker Amplifier                                     | 1             | Boosted/G | 8m     | 2.7     | 5.5     |
| <b>MAX9730</b> | 2.4W, Single-Supply Class G Power Amplifier                                   | PRODUCTION        | Speaker Amplifier                                     | 1             | Boosted/G | 8m     | 2.7     | 5.5     |
| <b>SSM2211</b> | Low Distortion, 1.5 W Audio Power Amplifier                                   | PRODUCTION        | Audio Power Amplifier, Class-D Amp, Speaker Amplifier | 1             | D         | -      | 2.7     | 5.5     |
| <b>SSM2019</b> | Self-Contained Audio Preamplifier                                             | PRODUCTION        | Pre-Amp                                               | -             | -         | -      | 5       | 18      |
| <b>SSM2141</b> | High Common-Mode Rejection Differential Line Receiver                         | LAST TIME BUY     | Line Driver/Rcvr                                      | -             | -         | -      | 6       | 18      |
| <b>SSM2142</b> | Balance Line Driver                                                           | LAST TIME BUY     | Line Driver/Rcvr                                      | -             | -         | -      | 5       | 18      |
| <b>SSM2143</b> | -6 dB Differential Line Receiver                                              | LAST TIME BUY     | Line Driver/Rcvr                                      | -             | -         | -      | 6       | 18      |
| <b>SSM2166</b> | Complete Microphone Conditioner with Variable Compression & Noise Gating      | PRODUCTION        | Pre-Amp                                               | -             | -         | -      | 4.5     | 5.5     |
| <b>SSM2167</b> | Low Voltage Microphone Preamplifier with Variable Compression & Noise Gating  | PRODUCTION        | Pre-Amp                                               | -             | -         | -      | 2.5     | 5.5     |
| <b>MAX9741</b> | 12W+12W, Low-EMI, Spread-Spectrum, Stereo, Class D Amplifier                  | PRODUCTION        | -                                                     | 2             | D         | 26m    | 10      | 25      |
| <b>MAX9728</b> | 60mW, DirectDrive, Stereo Headphone Amplifier with Shutdown                   | PRODUCTION        | -                                                     | -             | -         | 3.5m   | 4.5     | 5.5     |
| <b>MAX9723</b> | Stereo DirectDrive® Headphone Amplifier with BassMax, Volume Control, and I²C | PRODUCTION        | Headphone Amplifier                                   | -             | H         | 4m     | 1.8     | 3.6     |
| <b>MAX9705</b> | 2.3W, Ultra-Low-EMI, Filterless, Class D Audio Amplifier                      | PRODUCTION        | -                                                     | 1             | D         | 5.4m   | 2.5     | 5.5     |
| <b>MAX9709</b> | 25W/50W, Filterless, Spread-Spectrum, Stereo/Mono, Class D Amplifier          | PRODUCTION        | Speaker Amplifier                                     | 2             | D         | 20m    | 10      | 22      |

|                 | Description                                                                           | Product Lifecycle | Audio Primary Function | # of Channels | Class | Is typ | Vs+ min | Vs+ max |
|-----------------|---------------------------------------------------------------------------------------|-------------------|------------------------|---------------|-------|--------|---------|---------|
| <b>MAX9724A</b> | 60mW, DirectDrive, Stereo Headphone Amplifier with Low RF Susceptibility and Shutdown | PRODUCTION        | -                      | -             | -     | 3.5m   | 2.5     | 5.5     |
| <b>MAX9724B</b> | 60mW, DirectDrive, Stereo Headphone Amplifier with Low RF Susceptibility and Shutdown | PRODUCTION        | -                      | -             | -     | 3.5m   | 2.5     | 5.5     |
| <b>MAX9715</b>  | 2.8W, Low-EMI, Stereo, Filterless Class D Audio Amplifier                             | PRODUCTION        | Speaker Amplifier      | 2             | D     | 12.8m  | 4.5     | 5.5     |
| <b>MAX9708</b>  | 20W/40W, Filterless, Spread-Spectrum, Mono/Stereo, Class D Amplifier                  | PRODUCTION        | Speaker Amplifier      | 2             | D     | 20m    | 10      | 18      |
| <b>MAX9759</b>  | 3.2W, High-Efficiency, Low-EMI, Filterless, Class D Audio Amplifier                   | PRODUCTION        | Speaker Amplifier      | 1             | D     | 8.4m   | 3       | 5.5     |
| <b>MAX9850</b>  | Stereo Audio DAC with DirectDrive® Headphone Amplifier                                | PRODUCTION        | -                      | -             | -     | 5.5m   | 1.8     | 3.6     |
| <b>MAX9725</b>  | 1V, Low-Power, DirectDrive, Stereo Headphone Amplifier with Shutdown                  | PRODUCTION        | -                      | -             | -     | 2.1m   | 0.9     | 1.8     |
| <b>MAX9716</b>  | Low-Cost, Mono, 1.4W BTL Audio Power Amplifiers                                       | PRODUCTION        | Speaker Amplifier      | 1             | AB    | 4.3m   | 2.7     | 5.5     |
| <b>MAX9717</b>  | Low-Cost, Mono, 1.4W BTL Audio Power Amplifiers                                       | PRODUCTION        | Speaker Amplifier      | 1             | AB    | 4.3m   | 2.7     | 5.5     |
| <b>MAX9703</b>  | 10W Stereo/15W Mono, Filterless, Spread-Spectrum, Class D Amplifiers                  | PRODUCTION        | -                      | 1             | D     | 14m    | 10      | 25      |
| <b>MAX9704</b>  | 10W Stereo/15W Mono, Filterless, Spread-Spectrum, Class D Amplifiers                  | PRODUCTION        | -                      | 2             | D     | 24m    | 10      | 25      |
| <b>MAX9713</b>  | 6W, Filterless, Spread-Spectrum Mono/Stereo Class D Amplifiers                        | PRODUCTION        | -                      | 1             | D     | 10m    | 10      | 25      |
| <b>MAX9714</b>  | 6W, Filterless, Spread-Spectrum Mono/Stereo Class D Amplifiers                        | PRODUCTION        | -                      | 2             | D     | 18m    | 10      | 25      |
| <b>MAX9718</b>  | Low-Cost, Mono/Stereo, 1.4W Differential Audio Power Amplifiers                       | PRODUCTION        | Speaker Amplifier      | 1             | AB    | 5m     | 2.7     | 5.5     |

|                 | Description                                                                              | Product Lifecycle | Audio Primary Function   | # of Channels | Class | Is typ | Vs+ min | Vs+ max |
|-----------------|------------------------------------------------------------------------------------------|-------------------|--------------------------|---------------|-------|--------|---------|---------|
| <b>MAX9719</b>  | Low-Cost, Mono/Stereo, 1.4W Differential Audio Power Amplifiers                          | PRODUCTION        | Speaker Amplifier        | 2             | AB    | 5m     | 2.7     | 5.5     |
| <b>MAX9722A</b> | 5V, Differential Input, DirectDrive, 130mW Stereo Headphone Amplifiers with Shutdown     | PRODUCTION        | -                        | -             | -     | 5.5m   | 2.4     | 5.5     |
| <b>MAX9722B</b> | 5V, Differential Input, DirectDrive, 130mW Stereo Headphone Amplifiers with Shutdown     | PRODUCTION        | -                        | -             | -     | 5.5m   | 2.4     | 5.5     |
| <b>MAX9700</b>  | 1.2W, Low-EMI, Filterless, Class D Audio Amplifier                                       | PRODUCTION        | Speaker Amplifier        | 1             | D     | 4m     | 2.5     | 5.5     |
| <b>MAX9710</b>  | 3W Mono/Stereo BTL Audio Power Amplifiers with Shutdown                                  | PRODUCTION        | Speaker Amplifier        | 2             | AB    | 12m    | 4.5     | 5.5     |
| <b>MAX9711</b>  | 3W Mono/Stereo BTL Audio Power Amplifiers with Shutdown                                  | PRODUCTION        | Speaker Amplifier        | 1             | AB    | 7m     | 4.5     | 5.5     |
| <b>MAX4409</b>  | 80mW, DirectDrive, Stereo Headphone Amplifier with Common-Mode Sense                     | PRODUCTION        | -                        | -             | -     | 5m     | 1.8     | 3.6     |
| <b>MAX9813H</b> | Tiny, Low-Cost, Single/Dual-Input, Fixed-Gain Microphone Amplifiers with Integrated Bias | PRODUCTION        | Microphone Pre-Amplifier | -             | -     | 230μ   | 4.5     | 5.5     |
| <b>MAX9813L</b> | Tiny, Low-Cost, Single/Dual-Input, Fixed-Gain Microphone Amplifiers with Integrated Bias | PRODUCTION        | Microphone Pre-Amplifier | -             | -     | 230μ   | 2.7     | 3.6     |
| <b>MAX9720</b>  | 50mW, DirectDrive®, Stereo Headphone Amplifier with SmartSense™ and Shutdown             | PRODUCTION        | Headphone Amplifier      | -             | H     | 5m     | 1.8     | 3.6     |
| <b>MAX4063</b>  | Differential Microphone Preamplifier with Internal Bias and Complete Shutdown            | PRODUCTION        | Microphone Pre-Amplifier | -             | -     | 750μ   | 2.4     | 5.5     |
| <b>MAX4411</b>  | 80mW, Fixed-Gain, DirectDrive, Stereo Headphone Amplifier with Shutdown                  | PRODUCTION        | -                        | -             | -     | 5m     | 1.8     | 3.6     |
| <b>MAX4364</b>  | 1.4W and 1W, Ultra-Small, Audio Power Amplifiers with Shutdown                           | PRODUCTION        | -                        | -             | -     | -      | 2.7     | 5.5     |
| <b>MAX4061</b>  | Differential Microphone Preamplifiers with Internal Bias and Complete Shutdown           | PRODUCTION        | Microphone Pre-Amplifier | -             | -     | 750μ   | 2.4     | 5.5     |

|                | Description                                                                         | Product Lifecycle | Audio Primary Function         | # of Channels | Class | Is typ | Vs+ min | Vs+ max |
|----------------|-------------------------------------------------------------------------------------|-------------------|--------------------------------|---------------|-------|--------|---------|---------|
| <b>MAX4062</b> | Differential Microphone Preamplifiers with Internal Bias and Complete Shutdown      | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 750μ   | 2.4     | 5.5     |
| <b>MAX4465</b> | Low-Cost, Micropower, SC70/SOT23-8, Microphone Preamplifiers with Complete Shutdown | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 24μ    | 2.4     | 5.5     |
| <b>MAX4466</b> | Low-Cost, Micropower, SC70/SOT23-8, Microphone Preamplifiers with Complete Shutdown | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 24μ    | 2.4     | 5.5     |
| <b>MAX4467</b> | Low-Cost, Micropower, SC70/SOT23-8, Microphone Preamplifiers with Complete Shutdown | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 24μ    | 2.4     | 5.5     |
| <b>MAX4468</b> | Low-Cost, Micropower, SC70/SOT23-8, Microphone Preamplifiers with Complete Shutdown | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 24μ    | 2.4     | 5.5     |
| <b>MAX4469</b> | Low-Cost, Micropower, SC70/SOT23-8, Microphone Preamplifiers with Complete Shutdown | PRODUCTION        | Microphone Pre-Amplifier       | -             | -     | 24μ    | 2.4     | 5.5     |
| <b>MAX4295</b> | Mono, 2W, Switch-Mode (Class D) Audio Power Amplifier                               | PRODUCTION        | -                              | 1             | D     | 2.8m   | 2.7     | 5.5     |
| <b>MAX4298</b> | Ultra-High PSRR Stereo Drivers + Microphone Amp + 100mA Linear Regulator            | PRODUCTION        | Headphone Driver               | -             | -     | 10.2m  | 4.5     | 5.5     |
| <b>SSM3515</b> | 31 W, Filterless, Class-D Digital Input Audio Amplifier                             | PRODUCTION        | Class-D Amp, Speaker Amplifier | 1             | D     | 6.55m  | 4.5     | 17      |

# Audio CODECs

| Parts    | Description                                                                  | Product Lifecycle           | Channels | Resolution | THD+N typ | ADC Sample Rate max | DAC Outputs | DAC THD+N typ | DAC DNR typ | Data Output Interface         |
|----------|------------------------------------------------------------------------------|-----------------------------|----------|------------|-----------|---------------------|-------------|---------------|-------------|-------------------------------|
| ADAU1861 | Three ADCs, One DAC, Low Power Codec with Audio DSPs                         | RECOMMENDED FOR NEW DESIGNS | 3        | 24         | -         | 768k                | 1           | -             | 110         | I²S, PDM, TDM                 |
| ADAU1860 | Three ADCs, One DAC, Low Power Codec with Audio DSPs                         | RECOMMENDED FOR NEW DESIGNS | 3        | 24         | -         | 768k                | 1           | -96           | 110         | I²S, PDM, TDM                 |
| ADAU1850 | Three ADCs, One DAC, Low Power Codec with Audio/FastDSP                      | RECOMMENDED FOR NEW DESIGNS | 3        | 24         | -         | 768k                | 1           | -96           | 110         | I²S, TDM                      |
| MAX98050 | Low-power, High-Performance Audio CODEC                                      | PRODUCTION                  | 3        | 32         | -         | 192k                | 1           | -             | -           | Audio, I2C, I²S, PCM/TDM      |
| ADAU1788 | Two ADCs, One DAC, Low Power Codec with Audio DSPs                           | RECOMMENDED FOR NEW DESIGNS | 2        | 24         | -90       | 768k                | 1           | -93           | 105         | I²S, TDM                      |
| ADAU1787 | Four ADC, Two DAC, Low Power Codec with Audio DSPs                           | RECOMMENDED FOR NEW DESIGNS | 4        | 24         | -90       | 768k                | 2           | -93           | 105         | I²S, PDM, TDM                 |
| ADAU1777 | Four-ADC, Two-DAC, Low Power Codec with Audio Processor                      | PRODUCTION                  | 4        | 24         | -94       | 768k                | 2           | -94           | 104         | I2C, SPI                      |
| ADAU1372 | Quad ADC, Dual DAC, Low Latency, Low Power Codec                             | PRODUCTION                  | 4        | 24         | -90       | 192k                | 2           | -94           | 104         | I2C, SPI                      |
| MAX98091 | Ultra-Low Power Stereo Audio Codec                                           | RECOMMENDED FOR NEW DESIGNS | 2        | 24         | -         | 96k                 | 2           | -             | -           | Audio, I2C, I²S, PCM/TDM, SPI |
| MAX98090 | Ultra-Low Power Stereo Audio Codec                                           | PRODUCTION                  | 2        | 24         | -         | 96k                 | 2           | -             | -           | Audio, I2C, I²S, PCM/TDM, SPI |
| ADAU1772 | 4 ADC, 2 DAC Low-Power Codec with Audio Processor                            | PRODUCTION                  | 4        | 24         | -94       | 192k                | 2           | -94           | 104         | I2C, SPI                      |
| MAX98089 | Low-Power, Stereo Audio Codec with FlexSound Technology                      | PRODUCTION                  | 2        | 24         | -         | 96k                 | 2           | -             | -           | Audio, I2C, I²S               |
| ADAU1961 | Automotive Stereo, Low Power, 96 kHz, 24-Bit Audio Codec with Integrated PLL | PRODUCTION                  | 2        | 24         | -90       | 96k                 | 2           | -90           | 101         | I2C                           |

|                  | Description                                                                | Product Lifecycle | Channels | Resolution | THD+N typ | ADC Sample Rate max | DAC Outputs | DAC THD+N typ | DAC DNR typ | Data Output Interface                |
|------------------|----------------------------------------------------------------------------|-------------------|----------|------------|-----------|---------------------|-------------|---------------|-------------|--------------------------------------|
| <b>MAX9880A</b>  | Low-Power, High-Performance, Dual I <sup>2</sup> S, Stereo Audio Codec     | PRODUCTION        | 2        | 18         | -         | 96k                 | 2           | -             | -           | Audio, I2C, I <sup>2</sup> S, Serial |
| <b>ADAU1401A</b> | SigmaDSP 28-/56-Bit Audio Processor with Two ADCs and Four DACs            | PRODUCTION        | 2        | 24         | -83       | 192k                | 4           | -90           | 104         | I2C, SPI, Stand Alone                |
| <b>MAX9867</b>   | Ultra-Low Power Stereo Audio Codec                                         | PRODUCTION        | 2        | 18         | -         | 48k                 | 2           | -             | -           | Audio, I2C, I <sup>2</sup> S, Serial |
| <b>MAX9860</b>   | 16-Bit Mono Audio Voice Codec                                              | PRODUCTION        | 2        | 16         | -         | 48k                 | 1           | -             | -           | Audio, I2C, I <sup>2</sup> S, Serial |
| <b>ADAU1361</b>  | Stereo, Low Power, 96 kHz, 24-Bit Audio Codec with Integrated PLL          | PRODUCTION        | 2        | 24         | -90       | 96k                 | 2           | -90           | 101         | I2C                                  |
| <b>ADAU1761</b>  | SigmaDSP Stereo, Low Power, 96 kHz, 24-Bit Audio Codec with Integrated PLL | PRODUCTION        | 2        | 24         | -90       | 96k                 | 2           | -92           | 99          | I2C, SPI                             |
| <b>SSM2604</b>   | Low Power Audio Codec                                                      | PRODUCTION        | 2        | 24         | -80       | 96k                 | 2           | -80           | 100         | I2C                                  |
| <b>SSM2603</b>   | Low Power Audio Codec                                                      | PRODUCTION        | 2        | 24         | -80       | 96k                 | 2           | -             | 100         | I2C                                  |
| <b>ADAU1701</b>  | SigmaDSP® 28/56-Bit Audio Processor with Two ADCs and Four DACs            | PRODUCTION        | 2        | 24         | -83       | 192k                | 4           | -90           | 104         | I2C, SPI, Stand Alone                |
| <b>ADAU1702</b>  | SigmaDSP® 28-/56-Bit Audio Processor with Two ADCs and Four DACs           | PRODUCTION        | 2        | 24         | -83       | 192k                | 4           | -90           | 104         | I2C                                  |
| <b>ADAV801</b>   | Audio Codec for Recordable DVD                                             | LAST TIME BUY     | 2        | 24         | -88       | 96k                 | 2           | -91           | 101         | Serial                               |
| <b>ADAV803</b>   | Audio Codec for Recordable DVD                                             | LAST TIME BUY     | 2        | 24         | -88       | 96k                 | 2           | -91           | 101         | I2C                                  |
| <b>AD1939</b>    | 4 ADC/8 DAC with PLL, 192 kHz, 24-Bit Codec                                | PRODUCTION        | 4        | 24         | -96       | 192k                | 8           | -94           | 112         | Serial                               |
| <b>AD1937</b>    | Four ADCs/Eight DACs with PLL, 192 kHz, 24-Bit Codec                       | PRODUCTION        | 4        | 24         | -96       | 192k                | 8           | -94           | 109         | I2C                                  |

|                 | Description                                                                                                     | Product Lifecycle               | Channels | Resolution | THD+N typ | ADC Sample Rate max | DAC Outputs | DAC THD+N typ | DAC DNR typ | Data Output Interface |
|-----------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------|----------|------------|-----------|---------------------|-------------|---------------|-------------|-----------------------|
| <b>AD1938</b>   | 4 ADC/8 DAC with PLL, 192 kHz, 24-Bit CODEC                                                                     | PRODUCTION                      | 4        | 24         | -96       | 192k                | 8           | -94           | 108         | Serial                |
| <b>ADAU1328</b> | 2 ADC/8 DAC with PLL, 192 kHz, 24-Bit Codec                                                                     | LAST TIME BUY                   | 2        | 24         | -96       | 192k                | 8           | -80           | 96          | Serial                |
| <b>AD73311</b>  | Single-Channel, 3 V and 5 V Front-End Processor for General Purpose Applications Including Speech and Telephony | PRODUCTION                      | 1        | 16         | -76       | 64k                 | 1           | -70           | -           | SPORT                 |
| <b>AD73311L</b> | Single-Channel, 3 V Front-End Processor for General Purpose Applications Including Speech and Telephony         | PRODUCTION                      | 1        | 16         | -76       | 64k                 | 1           | -70           | -           | SPORT                 |
| <b>AD73322</b>  | Dual Voiceband Codec                                                                                            | NOT RECOMMENDED FOR NEW DESIGNS | 2        | 16         | -78       | 64k                 | 2           | -             | -           | SPORT                 |
| <b>AD74111</b>  | 2.5 V, 24-Bit Sigma-Delta Mono CODEC                                                                            | PRODUCTION                      | 1        | 24         | -75       | 48k                 | 1           | -88           | 93          | SPORT                 |
| <b>AD73322L</b> | Dual-Channel, 3 V Front-End Processor for General Purpose Applications Including Speech and Telephony           | NOT RECOMMENDED FOR NEW DESIGNS | 2        | 16         | -78       | 64k                 | 2           | -80           | -           | SPORT                 |

# Audio D/A Converters

| Parts     | Description                                                          | Product Lifecycle               | DAC Outputs | Resolution | Update Rate | DAC DNR <sup>typ</sup> | THD+N <sup>typ</sup> | Vs <sup>min</sup><br>I/O | Vs <sup>max</sup><br>I/O | Power <sup>typ</sup> | Analog Output Type         | DAC Type    | DAC Architecture | Special Features                                                  |
|-----------|----------------------------------------------------------------------|---------------------------------|-------------|------------|-------------|------------------------|----------------------|--------------------------|--------------------------|----------------------|----------------------------|-------------|------------------|-------------------------------------------------------------------|
| ADAU1962  | 12-Channel High Performance Differential Output, 192 kHz, 24-Bit DAC | PRODUCTION                      | 12          | 24         | 192         | 118                    | -98                  | 3                        | 5.5                      | 421m                 | Differential               | Voltage Out | Sigma Delta      | Integrated Temp Sensor, On-Chip Vref and I to V Amp, Serial Input |
| ADAU1962A | 12-Channel High Performance 192 kHz, 24-Bit DAC                      | PRODUCTION                      | 12          | 24         | 192         | 114                    | -97                  | 3.14                     | 3.46                     | 249m                 | Differential, Single-Ended | Voltage Out | Sigma Delta      | Integrated Temp Sensor, On-Chip Vref and I to V Amp, Serial Input |
| ADAU1966A | 16-Channel, High Performance, 192 kHz, 24-Bit DAC                    | PRODUCTION                      | 16          | 24         | 192         | 114                    | -97                  | 3.14                     | 3.46                     | 299m                 | Differential, Single-Ended | Voltage Out | Sigma Delta      | Integrated Temp Sensor, On-Chip Vref and I to V Amp, Serial Input |
| ADAU1966  | 16-Channel 118 dB SNR Differential Output, 192 kHz, 24-Bit DAC       | NOT RECOMMENDED FOR NEW DESIGNS | 16          | 24         | 192         | 118                    | -98                  | 3                        | 5.5                      | 521m                 | Differential               | Voltage Out | Sigma Delta      | Integrated Temp Sensor, On-Chip Vref and I to V Amp, Serial Input |

|               | Description                                                       | Product Lifecycle               | DAC Outputs | Resolution | Update Rate | DAC <sup>typ</sup><br>DNR | THD+N <sup>typ</sup> | V <sub>s</sub> <sup>min</sup><br>I/O | V <sub>s</sub> <sup>max</sup><br>I/O | Power <sup>typ</sup> | Analog Output Type | DAC Type                 | DAC Architecture | Special Features                                          |
|---------------|-------------------------------------------------------------------|---------------------------------|-------------|------------|-------------|---------------------------|----------------------|--------------------------------------|--------------------------------------|----------------------|--------------------|--------------------------|------------------|-----------------------------------------------------------|
| <b>AD1933</b> | 8-Channel DAC with PLL and Differential Outputs, 192 kHz, 24 Bits | PRODUCTION                      | 8           | 24         | 192         | 112                       | -96                  | 3                                    | 3.6                                  | 429m                 | Differential       | Voltage Out              | Sigma Delta      | Integrated LDO, On-Chip Vref and I to V Amp, Serial Input |
| <b>AD1934</b> | 8-Channel DAC with PLL, 192 kHz, 24 Bits                          | PRODUCTION                      | 8           | 24         | 192         | 108                       | -92                  | 3                                    | 3.6                                  | 429m                 | Single-Ended       | Voltage Out              | Sigma Delta      | Integrated LDO, On-Chip Vref and I to V Amp, Serial Input |
| <b>AD1955</b> | High Performance, Multibit Sigma-Delta DAC with SACD Playback     | PRODUCTION                      | 2           | 24         | 192         | 123                       | -110                 | 4.5                                  | 5.5                                  | 210m                 | Single-Ended       | Current Out              | Sigma Delta      | SACD Playback                                             |
| <b>AD1851</b> | 16-Bit/18-Bit, 16 3 FS PCM Audio DACs                             | PRODUCTION                      | 1           | 16         | -           | 96                        | -90                  | 5                                    | 5                                    | 100m                 | Single-Ended       | Current Out, Voltage Out | R-2R             | -                                                         |
| <b>AD1866</b> | Single Supply Dual 16-Bit Audio DAC                               | PRODUCTION                      | 2           | 16         | -           | 90                        | -86                  | 3.5                                  | 5.25                                 | 50m                  | Single-Ended       | Voltage Out              | R-2R             | On-Chip Vref and I to V Amp, Serial Input                 |
| <b>AD1852</b> | Stereo, 24-Bit, 192 kHz, Multibit Sigma Delta DAC                 | NOT RECOMMENDED FOR NEW DESIGNS | 2           | 24         | 192k        | 114                       | -102                 | 5                                    | 5                                    | 265m                 | Differential       | Voltage Out              | Sigma Delta      | -                                                         |

|        | Description                    | Product Lifecycle | DAC Outputs | Resolution | Update Rate | DAC <sup>typ</sup><br>DNR | THD+N <sup>typ</sup> | V <sub>s</sub> <sup>min</sup><br>I/O | V <sub>s</sub> <sup>max</sup><br>I/O | Power <sup>typ</sup> | Analog Output Type | DAC Type    | DAC Architecture | Special Features                          |
|--------|--------------------------------|-------------------|-------------|------------|-------------|---------------------------|----------------------|--------------------------------------|--------------------------------------|----------------------|--------------------|-------------|------------------|-------------------------------------------|
| AD1856 | 16-Bit PCM Audio D/A Converter | PRODUCTION        | 1           | 16         | 96          | 96                        | -100                 | 4.75                                 | 13.2                                 | 110m                 | Single-Ended       | Voltage Out | R-2R             | On-Chip Vref and I to V Amp, Serial Input |

# Audio Jack Detectors

| Parts    | Description                                              | Product Lifecycle | VSUPPLY    | Features                                                                                                               | ESD Protection            | Low-Noise LDO Output | MIC Switch Detection | Control Inputs | Supply Current for MIC Detection | Pop-Up Noise Elimination |
|----------|----------------------------------------------------------|-------------------|------------|------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------|----------------------|----------------|----------------------------------|--------------------------|
| MAX20317 | Universal 3.5mmØ Accessory Management IC                 | PRODUCTION        | 2.5 to 5.5 | 3P/4P Detection, MEMS MIC Detection, MIC Bias Off Control, MIC Power Save Mode, Threshold Compliant 3-Button Detection | 15kV HBM on MIC and DETIN | 2.8                  | Ground               | MIC Mode       | 15                               | Plug-in and Plug-out     |
| MAX14628 | Low-Power Headset Detectors with SEND/END Button Support | PRODUCTION        | 3.1 to 5.5 | 3P/4P Detection, MIC Bias Off Control, Threshold Compliant 3-Button Detection                                          | 15kV HBM on MIC and DETIN | 2.8                  | Open and Ground      | MIC Mode       | 1.9                              | Plug-in and Plug-out     |

# Audio Routing (Unbuffered)

| Parts   | Description                                                                     | Product Lifecycle | Functions  | Timer Configurations | Interface         | RON <sub>max</sub> | ILEAK(OFF) <sub>max</sub> | RFLAT(ON) <sub>max</sub> | tON <sub>max</sub> | Off Iso.             | Crosstalk            |
|---------|---------------------------------------------------------------------------------|-------------------|------------|----------------------|-------------------|--------------------|---------------------------|--------------------------|--------------------|----------------------|----------------------|
| MAX4584 | Serially Controlled Audio/Video Switches                                        | PRODUCTION        | Switch     | 1 x SPST + 1 x SPDT  | I2C/SMBus, Serial | 65                 | 1                         | 5                        | 400                | -48@10MHz, -83@20kHz | -60@10MHz, -84@20kHz |
| MAX4586 | Serially Controlled, 4-Channel Audio/Video Multiplexers                         | PRODUCTION        | Mux        | 1 x 4-to-1           | I2C/SMBus, Serial | 65                 | 1                         | 5                        | 400                | -48@10MHz, -83@20kHz | -60@10MHz, -84@20kHz |
| MAX4549 | Serially Controlled, Triple 3x2 Audio/Video Crosspoint Switches                 | PRODUCTION        | Crosspoint | 3 x 3-to-2           | 3-Wire, Serial    | 35                 | 10                        | 5                        | 400                | -72@10MHz, -85@20kHz | -55@10MHz, -85@20kHz |
| MAX4562 | Serially Controlled, Clickless Audio/Video Switches                             | PRODUCTION        | Switch     | 2 x SPST + 2 x SPDT  | I2C/SMBus, Serial | 20                 | 1                         | 5                        | 12000              | -55@10MHz, -85@20kHz | -55@10MHz, -85@20kHz |
| MAX4571 | Serially Controlled, Clickless Audio/Video Switches                             | PRODUCTION        | Switch     | 11 x SPST NO         | I2C/SMBus, Serial | 35                 | 0.2                       | 6                        | 8000               | -50@10MHz, -90@20kHz | -52@10MHz, -90@20kHz |
| MAX4572 | Serially Controlled, Clickless Audio/Video Switches                             | PRODUCTION        | Switch     | 2 x SPST + 6 x SPDT  | I2C/SMBus, Serial | 35                 | 0.2                       | 6                        | 8000               | -50@10MHz, -90@20kHz | -52@10MHz, -90@20kHz |
| MAX4573 | Serially Controlled, Clickless Audio/Video Switches                             | PRODUCTION        | Switch     | 11 x SPST NO         | 3-Wire, Serial    | 35                 | 0.2                       | 6                        | 8000               | -50@10MHz, -90@20kHz | -52@10MHz, -90@20kHz |
| MAX4574 | Serially Controlled, Clickless Audio/Video Switches                             | PRODUCTION        | Switch     | 2 x SPST + 6 x SPDT  | 3-Wire, Serial    | 35                 | 0.2                       | 6                        | 8000               | -50@10MHz, -90@20kHz | -52@10MHz, -90@20kHz |
| MAX4550 | Serially Controlled, Dual 4x2, Clickless Audio/Video Analog Crosspoint Switches | PRODUCTION        | Crosspoint | 2 x 4-to-2           | I2C/SMBus, Serial | 80                 | 10                        | 5                        | 900                | -78@4MHz             | -54@4MHz             |

|         | Description                                                                     | Product Lifecycle | Functions  | Timer Configurations | Interface      | RON <sub>max</sub> | ILEAK(OFF) <sub>max</sub> | RFLAT(ON) <sub>max</sub> | tON <sub>max</sub> | Off Iso. | Crosstalk |
|---------|---------------------------------------------------------------------------------|-------------------|------------|----------------------|----------------|--------------------|---------------------------|--------------------------|--------------------|----------|-----------|
| MAX4570 | Serially Controlled, Dual 4x2, Clickless Audio/Video Analog Crosspoint Switches | PRODUCTION        | Crosspoint | 2 x 4-to-2           | 3-Wire, Serial | 80                 | 10                        | 5                        | 900                | -78@4MHz | -54@4MHz  |

# Audio Signal Processors

| Parts             | Description                                                                         | Product Lifecycle           | Processor Product Family |
|-------------------|-------------------------------------------------------------------------------------|-----------------------------|--------------------------|
| <b>ADSP1802</b>   | SHARC Processor                                                                     | RECOMMENDED FOR NEW DESIGNS | SHARC                    |
| <b>ADSP-21836</b> | Up to 800 MHz SHARC®-FX DSP                                                         | PRE-RELEASE                 | SHARC-FX                 |
| <b>ADSP-21837</b> | Up to 1 GHz SHARC®-FX DSP                                                           | PRE-RELEASE                 | SHARC-FX                 |
| <b>ADSP-SC834</b> | Up to 800 MHz SHARC®-FX DSP w/ Integrated Arm® Cortex®-M33                          | PRE-RELEASE                 | SHARC-FX                 |
| <b>ADSP-SC835</b> | Up to 1 GHz SHARC®-FX DSP w/ Integrated Arm® Cortex®-M33                            | PRE-RELEASE                 | SHARC-FX                 |
| <b>ADSP-21834</b> | Up to 800 MHz SHARC®-FX DSP                                                         | PRE-RELEASE                 | SHARC-FX                 |
| <b>ADSP-21594</b> | Up to 1 GHz Dual-SHARC+® DSP with 2x 640KB L1, 2048KB Shared L2 SRAM                | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-SC592</b> | 1 GHz SHARC+® DSP w/ Integrated Arm® Cortex®-A5                                     | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-SC594</b> | Up to 1 GHz Dual-SHARC+® DSP w/ Integrated Arm® Cortex®-A5                          | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21593</b> | Up to 1GHz Dual-SHARC+® DSP with 2x 640KB L1, 2048KB Shared L2 SRAM, 400-Ball FCBGA | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21562</b> | 400MHz SHARC+ DSP with 640KB L1, 256KB Shared L2 SRAM, 120-lead LQFP_EP             | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21563</b> | Up to 800MHz SHARC+ DSP with 640KB L1, 512KB Shared L2 SRAM, 120-lead LQFP_EP       | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21565</b> | Up to 1GHz SHARC+ DSP with 640KB L1, 1024KB Shared L2 SRAM, 120-lead LQFP_EP        | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21566</b> | 400MHz SHARC+ DSP with 640KB L1, 256KB Shared L2 SRAM, 400-Ball CSP_BGA             | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADAU1787</b>   | Four ADC, Two DAC, Low Power Codec with Audio DSPs                                  | RECOMMENDED FOR NEW DESIGNS | FastDSP, SigmaDSP        |

|                     | Description                                                                                                  | Product Lifecycle | Processor Product Family |
|---------------------|--------------------------------------------------------------------------------------------------------------|-------------------|--------------------------|
| <b>ADSP-21571</b>   | Dual-core SHARC+ DSP (w/768KB L1), 1MB Shared L2, 176-LQFP                                                   | PRODUCTION        | SHARC +                  |
| <b>ADSP-SC570</b>   | Single-core SHARC+ (w/384KB L1), arm® Cortex-A5, 1MB Shared L2, 10/100 Ethernet, 176-LQFP                    | PRODUCTION        | SHARC +                  |
| <b>ADSP-SC571</b>   | Dual-core SHARC+ (w/768KB L1), arm® Cortex-A5, 1MB Shared L2, 10/100 Ethernet, 176-LQFP                      | PRODUCTION        | SHARC +                  |
| <b>ADAU1463-300</b> | Sigma DSP, Digital Audio Processor with Increased I2S Flexibility                                            | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1467</b>     | Sigma DSP, Digital Audio Processor with Extended Internal Memory and I/O Functionality                       | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1462-300</b> | SigmaDSP Compact Digital Audio Processor                                                                     | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1466</b>     | SigmaDSP Compact Digital Audio Processor with Extended Internal Memory                                       | PRODUCTION        | SigmaDSP                 |
| <b>ADSP-21573</b>   | Dual-core SHARC+ DSP (w/768KB L1), 1MB Shared L2, DDR, 400-cspBGA                                            | PRODUCTION        | SHARC +                  |
| <b>ADSP-SC572</b>   | Single-core SHARC+ (w/384KB L1), arm® Cortex-A5, 1MB Shared L2, DDR, Gigabit Ethernet, USB, SDIO, 400-cspBGA | PRODUCTION        | SHARC +                  |
| <b>ADSP-SC573</b>   | Dual-core SHARC+ (w/768KB L1), arm® Cortex-A5, 1MB Shared L2, DDR, Gigabit Ethernet, USB, SDIO, 400-cspBGA   | PRODUCTION        | SHARC +                  |
| <b>ADSP-BF700</b>   | Low Power 200MHz Blackfin+ Embedded Processor with 128KByte L2 SRAM                                          | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF701</b>   | Low Power 200MHz Blackfin+ Embedded Processor with 128KByte L2 SRAM & DDR2/LPDDR Interface                   | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF702</b>   | Low Power 400MHz Blackfin+ Embedded Processor with 256KByte L2 SRAM                                          | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF703</b>   | Low Power 400MHz Blackfin+ Embedded Processor with 256KByte L2 SRAM & DDR2/LPDDR Interface                   | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF704</b>   | Low Power 400MHz Blackfin+ Embedded Processor with 512KByte L2 SRAM                                          | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF705</b>   | Low Power 400MHz Blackfin+ Embedded Processor with 512KByte L2 SRAM & DDR2/LPDDR Interface                   | PRODUCTION        | Blackfin, Blackfin+      |

|                   | Description                                                                                            | Product Lifecycle | Processor Product Family |
|-------------------|--------------------------------------------------------------------------------------------------------|-------------------|--------------------------|
| <b>ADSP-BF706</b> | Low Power 400MHz Blackfin+ Embedded Processor with 1MByte L2 SRAM                                      | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADSP-BF707</b> | Low Power 400MHz Blackfin+ Embedded Processor with 1MByte L2 SRAM & DDR2/LPDDR Interface               | PRODUCTION        | Blackfin, Blackfin+      |
| <b>ADAU1450</b>   | SigmaDSP Digital Audio Processor                                                                       | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1451</b>   | SigmaDSP Digital Audio Processor                                                                       | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1452</b>   | SigmaDSP Digital Audio Processor                                                                       | PRODUCTION        | SigmaDSP                 |
| <b>ADSP-BF609</b> | Blackfin Dual-Core Processor up to 1GHz with Hardware Support for HD Video Analytics                   | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF607</b> | Blackfin Dual-Core Processor up to 1GHz for High Performance Digital Signal Processing Applications    | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF608</b> | Blackfin Dual-Core Processor up to 1GHz with Hardware Support for VGA Video Analytics                  | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF606</b> | Blackfin Dual-Core Processor up to 800 MHz for High Performance Digital Signal Processing Applications | PRODUCTION        | Blackfin                 |
| <b>ADSP-21477</b> | High Performance Fourth Generation DSP                                                                 | PRODUCTION        | SHARC                    |
| <b>ADSP-BF549</b> | High Performance Convergent Multimedia Blackfin Processor                                              | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF592</b> | Low Cost Blackfin with Optimized Peripheral Set for Industrial and General Purpose Applications        | PRODUCTION        | Blackfin                 |
| <b>ADAU1401A</b>  | SigmaDSP 28-/56-Bit Audio Processor with Two ADCs and Four DACs                                        | PRODUCTION        | SigmaDSP                 |
| <b>ADSP-21478</b> | High Performance Fourth Generation DSP                                                                 | PRODUCTION        | SHARC                    |
| <b>ADSP-21483</b> | High Performance Fourth Generation DSP                                                                 | PRODUCTION        | SHARC                    |
| <b>ADSP-21488</b> | High Performance Fourth Generation DSP                                                                 | PRODUCTION        | SHARC                    |

|                   | Description                                                                                     | Product Lifecycle | Processor Product Family |
|-------------------|-------------------------------------------------------------------------------------------------|-------------------|--------------------------|
| <b>ADSP-21489</b> | High Performance Fourth Generation DSP                                                          | PRODUCTION        | SHARC                    |
| <b>ADSP-21487</b> | High Performance Fourth Generation DSP                                                          | PRODUCTION        | SHARC                    |
| <b>ADSP-21486</b> | High Performance Fourth Generation DSP                                                          | PRODUCTION        | SHARC                    |
| <b>ADSP-21479</b> | High Performance Fourth Generation DSP                                                          | PRODUCTION        | SHARC                    |
| <b>ADSP-BF504</b> | Low Cost Blackfin with Optimized Peripheral Set for Industrial and General Purpose Applications | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF514</b> | Low Power Blackfin with Consumer Devices Connectivity                                           | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF516</b> | Low Power Blackfin with Advanced Embedded Connectivity                                          | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF518</b> | Low Power Blackfin with Advanced Embedded Connectivity                                          | PRODUCTION        | Blackfin                 |
| <b>ADSP-BF512</b> | Low Power Blackfin with Consumer Devices Connectivity                                           | PRODUCTION        | Blackfin                 |
| <b>ADAU1442</b>   | SigmaDSP® Digital Audio Processor with Flexible Audio Routing Matrix                            | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1445</b>   | SigmaDSP® Digital Audio Processor with Flexible Audio Routing Matrix                            | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1446</b>   | SigmaDSP® Digital Audio Processor with Flexible Audio Routing Matrix                            | PRODUCTION        | SigmaDSP                 |
| <b>ADAU1761</b>   | SigmaDSP Stereo, Low Power, 96 kHz, 24-Bit Audio Codec with Integrated PLL                      | PRODUCTION        | SigmaDSP                 |
| <b>ADSP-21469</b> | High Performance Fourth Generation DSP                                                          | PRODUCTION        | SHARC                    |
| <b>ADAV4601</b>   | Audio Processor for Advanced TV                                                                 | LAST TIME BUY     | ATV                      |
| <b>ADSP-BF523</b> | Low Power Blackfin Processor with Advanced Peripherals                                          | PRODUCTION        | Blackfin                 |

|                    | Description                                                                             | Product Lifecycle               | Processor Product Family |
|--------------------|-----------------------------------------------------------------------------------------|---------------------------------|--------------------------|
| <b>ADSP-BF523C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF524</b>  | Low Power Blackfin Processor with Advanced Peripherals and Low Standby Power            | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF524C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF526</b>  | Low Power Blackfin Processor with Advanced Peripherals and Low Standby Power            | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF526C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |
| <b>ADAV4622</b>    | Audio Processor for Advanced TV with Sound IF Demodulator and Stereo Decoder            | LAST TIME BUY                   | ATV                      |
| <b>ADSP-BF538F</b> | Blackfin Processor for Industrial and Peripheral Intensive Applications                 | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF539F</b> | Blackfin Processor for Automotive Navigation, Entertainment and Audio Systems           | NOT RECOMMENDED FOR NEW DESIGNS | Blackfin                 |
| <b>ADSP-BF527</b>  | Low Power Blackfin Processor with Advanced Peripherals                                  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF561</b>  | Blackfin Symmetric Multi-Processor for Consumer Multimedia                              | PRODUCTION                      | Blackfin                 |
| <b>ADSP-21364</b>  | High Precision 32-Bit Floating-Point SHARC Processor for Professional Audio             | PRODUCTION                      | SHARC                    |
| <b>ADSP-21369</b>  | High-Performance 32-bit Floating-Point SHARC Processor for General Purpose Applications | PRODUCTION                      | SHARC                    |
| <b>ADSP-BF537</b>  | Blackfin Processor with Embedded Network Connectivity                                   | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF547</b>  | High Performance Convergent Multimedia Blackfin Processor                               | PRODUCTION                      | Blackfin                 |
| <b>ADAU1701</b>    | SigmaDSP® 28/56-Bit Audio Processor with Two ADCs and Four DACs                         | PRODUCTION                      | SigmaDSP                 |
| <b>ADAU1702</b>    | SigmaDSP® 28-/56-Bit Audio Processor with Two ADCs and Four DACs                        | PRODUCTION                      | SigmaDSP                 |

|                    | Description                                                                             | Product Lifecycle               | Processor Product Family |
|--------------------|-----------------------------------------------------------------------------------------|---------------------------------|--------------------------|
| <b>ADSP-BF531</b>  | 400 MHz Low Cost Blackfin Processor                                                     | PRODUCTION                      | Blackfin                 |
| <b>ADSP-21371</b>  | High-Performance 32-bit Floating-Point SHARC Processor for Automotive Audio             | PRODUCTION                      | SHARC                    |
| <b>ADSP-21375</b>  | High-Performance 32-bit Floating-Point SHARC Processor                                  | PRODUCTION                      | SHARC                    |
| <b>ADSP-BF532</b>  | 400 MHz High Performance Blackfin Processor                                             | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF533</b>  | High Performance General Purpose Blackfin Processor                                     | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF538</b>  | Blackfin Processors for Industrial and Peripheral Intensive Applications                | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF539</b>  | Blackfin Processor for Automotive Navigation, Entertainment and Audio Systems           | PRODUCTION                      | Blackfin                 |
| <b>ADSP-21362</b>  | High Performance 32-Bit Floating-Point SHARC Processor for Automotive Audio             | PRODUCTION                      | SHARC                    |
| <b>ADSP-21363</b>  | High-Performance 32-bit Floating-Point SHARC Processor for General Purpose Applications | PRODUCTION                      | SHARC                    |
| <b>ADSP-21365</b>  | High Performance 32-Bit Floating-Point SHARC Processor for Automotive Audio             | NOT RECOMMENDED FOR NEW DESIGNS | SHARC                    |
| <b>ADSP-21366</b>  | High-Performance 32-bit Floating-Point SHARC Processor for Home Theater                 | NOT RECOMMENDED FOR NEW DESIGNS | SHARC                    |
| <b>ADSP-BF522</b>  | Low Power Blackfin Processor with Advanced Peripherals and Low Standby Power            | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF522C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF525</b>  | Low Power Blackfin Processor with Advanced Peripherals                                  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF525C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |
| <b>ADSP-BF527C</b> | Low Power Blackfin Processor with Advanced Peripherals and Embedded Stereo Audio CODEC  | PRODUCTION                      | Blackfin                 |

|                   | Description                                                                       | Product Lifecycle           | Processor Product Family |
|-------------------|-----------------------------------------------------------------------------------|-----------------------------|--------------------------|
| <b>ADSP-BF542</b> | High Performance Convergent Multimedia Blackfin Processor                         | PRODUCTION                  | Blackfin                 |
| <b>ADSP-BF544</b> | High Performance Convergent Multimedia Blackfin Processor                         | PRODUCTION                  | Blackfin                 |
| <b>ADSP-BF548</b> | High Performance Convergent Multimedia Blackfin Processor                         | PRODUCTION                  | Blackfin                 |
| <b>ADSP-21266</b> | Highly Integrated 32-Bit Floating-Point SHARC Processor for Home Theater          | RECOMMENDED FOR NEW DESIGNS | SHARC                    |
| <b>ADSP-21261</b> | 3rd Generation, Low-Cost, 150 MHz SHARC Processor                                 | PRODUCTION                  | SHARC                    |
| <b>ADSP-BF534</b> | Blackfin Processor with CAN Connectivity for Automotive & Industrial Applications | PRODUCTION                  | Blackfin                 |
| <b>ADSP-BF536</b> | Blackfin Processor with Embedded Network Connectivity                             | PRODUCTION                  | Blackfin                 |
| <b>ADSP-21262</b> | 3rd Generation Low Cost 32-Bit Floating-Point SHARC DSP                           | PRODUCTION                  | SHARC                    |
| <b>ADSP-21567</b> | Up to 800MHz SHARC+ DSP with 640KB L1, 512KB Shared L2 SRAM, 400-Ball CSP_BGA     | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21569</b> | Up to 1GHz SHARC+ DSP with 640KB L1, 1024KB Shared L2 SRAM, 400-Ball CSP_BGA      | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADAU1472</b>   | SigmaDSP Digital Audio Processor                                                  | LAST TIME BUY               | SigmaDSP                 |
| <b>ADSP-21560</b> | 800 MHz SHARC+ DSP with 1024 KB Shared L2 SRAM                                    | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21561</b> | Up to 933 MHz SHARC+ DSP with 1536 KB Shared L2 SRAM                              | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21564</b> | Up to 933 MHz SHARC+ DSP with 2048KB Shared L2 SRAM                               | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21568</b> | -                                                                                 | RECOMMENDED FOR NEW DESIGNS | SHARC +                  |
| <b>ADSP-21583</b> | Dual-core SHARC+ DSP, DDR, 349-cspBGA                                             | PRODUCTION                  | SHARC +                  |

|                   | Description                                                                                 | Product Lifecycle           | Processor Product Family |
|-------------------|---------------------------------------------------------------------------------------------|-----------------------------|--------------------------|
| <b>ADSP-21584</b> | Dual-core SHARC+ DSP, DDR, 349-cspBGA                                                       | PRODUCTION                  | SHARC +                  |
| <b>ADSP-21587</b> | Dual-core SHARC+ DSP, dual DDR, 529-cspBGA                                                  | PRODUCTION                  | SHARC +                  |
| <b>ADSP-21835</b> | Up to 1 GHz SHARC®-FX DSP                                                                   | RECOMMENDED FOR NEW DESIGNS | SHARC-FX                 |
| <b>ADSP-SC582</b> | Single-core SHARC+ and ARM Cortex-A5 SOC, DDR, Ethernet, USB, 349-cspBGA                    | PRODUCTION                  | SHARC +                  |
| <b>ADSP-SC583</b> | Dual-core SHARC+ and ARM Cortex-A5 SOC, DDR, Ethernet, USB, 349-cspBGA                      | PRODUCTION                  | SHARC +                  |
| <b>ADSP-SC584</b> | Dual-core SHARC+ and Arm Cortex-A5 SOC, DDR, Ethernet, USB, 349-cspBGA                      | PRODUCTION                  | SHARC +                  |
| <b>ADSP-SC587</b> | Dual-core SHARC+ and ARM Cortex-A5 SOC, dual DDR, 2xEthernet, 2xUSB, SDIO, 529-cspBGA       | PRODUCTION                  | SHARC +                  |
| <b>ADSP-SC589</b> | Dual-core SHARC+ and ARM Cortex-A5 SOC, dual DDR, 2xEthernet, 2xUSB, SDIO, PCIe, 529-cspBGA | PRODUCTION                  | SHARC +                  |

# Click-Pop Suppressors

| Parts   | Description                               | Product Lifecycle | # Channels | VSUPPLY <sub>min</sub> | VSUPPLY <sub>max</sub> | IQ <sub>typ</sub> | PSRR <sub>min</sub> | THD+N | SHDN |
|---------|-------------------------------------------|-------------------|------------|------------------------|------------------------|-------------------|---------------------|-------|------|
| MAX9892 | Shunt Mode Audio Click-and-Pop Eliminator | PRODUCTION        | 2          | 1.7                    | 3.6                    | 0.0006            | -                   | -     | Yes  |
| MAX9890 | Audio Click-Pop Suppressor                | PRODUCTION        | 2          | 2.7                    | 5.5                    | 0.014             | 100                 | 0.003 | Yes  |

# Volume Control Devices

| Parts   | Description                                                         | Product Lifecycle           | Steps | # Potentiometers | Control Interface            | Taper | Wiper Memory | REND-TO-END | Res. Tol. | Temp. Coeff. typ | Wiper Resistance typ | ICC @5V max | End Equipment                                                                                                                                                   |
|---------|---------------------------------------------------------------------|-----------------------------|-------|------------------|------------------------------|-------|--------------|-------------|-----------|------------------|----------------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAX5486 | Stereo Volume Control with Pushbutton Interface                     | PRODUCTION                  | 32    | 2                | Debounced Pushbutton Up/Down | Log   | Volatile     | 40          | 30        | 50               | 1                    | 1.4         | Audio Control, Automotive Back-Seat Multimedia, Car Stereo, Desktop Speakers, Multimedia Docking Stations, Portable Audio, Set-Top Boxes, Stereo Volume Control |
| DS4420  | I <sup>2</sup> C Programmable Gain Amplifier for Audio Applications | PRODUCTION                  | 20    | -                | 2-Wire Addressable           | Log   | Volatile     | -           | -         | -                | -                    | 3000        | Microphone Gain Control, Telephone Headsets                                                                                                                     |
| MAX5440 | Stereo Volume Control with Rotary Encoder Interface                 | RECOMMENDED FOR NEW DESIGNS | 32    | 2                | Rotary Encoder               | Log   | Volatile     | 40          | 30        | 35               | 1                    | 1.4         | Automotive Back-Seat Multimedia, Desktop Speakers, Multimedia Docking Stations, Set-Top Boxes, Stereo Volume Control                                            |
| MAX5456 | Stereo Audio Taper Potentiometers with Pushbutton Interface         | PRODUCTION                  | 32    | 2                | Debounced Pushbutton Up/Down | Log   | Volatile     | 10          | 30        | 50               | 1000                 | 1           | Audio Control                                                                                                                                                   |

|                | Description                                                 | Product Lifecycle           | Steps | # Potentiometers | Control Interface            | Taper | Wiper Memory | REND-TO-END | Res. Tol. | Temp. Coeff. <sup>typ</sup> | Wiper Resistance <sup>typ</sup> | ICC @5V <sup>max</sup> | End Equipment                                                                       |
|----------------|-------------------------------------------------------------|-----------------------------|-------|------------------|------------------------------|-------|--------------|-------------|-----------|-----------------------------|---------------------------------|------------------------|-------------------------------------------------------------------------------------|
| <b>MAX5457</b> | Stereo Audio Taper Potentiometers with Pushbutton Interface | PRODUCTION                  | 32    | 2                | Debounced Pushbutton Up/Down | Log   | Volatile     | 10          | 30        | 50                          | 1000                            | 1                      | Audio Control                                                                       |
| <b>MAX5407</b> | 32-Tap Audio Logarithmic Taper Digital Potentiometer        | PRODUCTION                  | 32    | 1                | Direction+Clock              | Log   | Volatile     | 20          | 25        | 35                          | 400                             | 0.35                   | -                                                                                   |
| <b>MAX5408</b> | Dual, Audio, Log Taper Digital Potentiometers               | PRODUCTION                  | 32    | 2                | 3-Wire Serial SPI            | Log   | Volatile     | 10          | 30        | 35                          | 1000                            | 0.2                    | -                                                                                   |
| <b>MAX5409</b> | Dual, Audio, Log Taper Digital Potentiometers               | PRODUCTION                  | 32    | 2                | 3-Wire Serial SPI            | Log   | Volatile     | 10          | 30        | 35                          | 1000                            | 0.2                    | -                                                                                   |
| <b>MAX5410</b> | Dual, Audio, Log Taper Digital Potentiometers               | PRODUCTION                  | 32    | 2                | 3-Wire Serial SPI            | Log   | Volatile     | 10          | 30        | 35                          | 1000                            | 0.2                    | -                                                                                   |
| <b>MAX5411</b> | Dual, Audio, Log Taper Digital Potentiometers               | PRODUCTION                  | 32    | 2                | 3-Wire Serial SPI            | Log   | Volatile     | 10          | 30        | 35                          | 1000                            | 0.2                    | -                                                                                   |
| <b>DS1801</b>  | Dual Audio Taper Potentiometer                              | PRODUCTION                  | 64    | 2                | 3-Wire Serial                | Log   | Volatile     | 45          | 20        | 750                         | 400                             | 50                     | Audio Control, Car Stereo, Portable Audio, Portable Consumer, Stereo Volume Control |
| <b>DS1807</b>  | Addressable Dual Audio Taper Potentiometer                  | RECOMMENDED FOR NEW DESIGNS | 64    | 2                | 2-Wire Addressable           | Log   | Volatile     | 45          | 20        | 750                         | 400                             | 40                     | Audio Control, Car Stereo, Desktop Speakers, Portable Audio                         |

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