

Analog Performance Characteristics

Parameter	Minimum	Typical	Maximum	Units
Line Outputs				
Full Scale Output Voltage		1.0		Vrms
Dynamic Range (measured with -60 dBFS signal present)		100		dBFS
Total Harmonic Distortion + Noise (THD + N)		-85		dB
Channel Crosstalk		-84		dBFS
Analog Frequency Response (+/- 3 dB at 20 Hz, +/- 1 dB at 20000 Hz)	20		20000	Hz
Headphone Output				
Full Scale Output Voltage		1.2		Vrms
Dynamic Range (measured with -60 dBFS signal present)		99		dBFS
Total Harmonic Distortion + Noise (THD + N)		-87		dB
Channel Crosstalk		-75		dBFS
Analog Frequency Response (+/- 3 dB at 20 Hz, +/- 1 dB at 20000 Hz)	20		20000	Hz
Class-D Speaker Amplifier Outputs				
Full Scale Output Voltage (into 4 Ω)	3.96 2.83	4.0 2.90	4.2 3	Vp Vrms
Dynamic Range (measured with -60 dBFS signal present)		94		dBFS
Total Harmonic Distortion + Noise (THD + N, measured at -3 dBFS)		-71		dBFS
Analog Frequency Response (+/- 3 dB at 20 Hz, +/- 1 dB at 20000 Hz)	20		20000	Hz
Efficiency (Measured at 1 W/Ch)		85		%
Microphone/Line Inputs				
Full Scale Input Voltage (With 20 dB boost)	0.1			Vrms
Full Scale Input Voltage (With boost off)	1.0			
Dynamic Range (measured with -60 dBFS signal present)		91		dBFS
Total Harmonic Distortion + Noise (THD + N)		-87		dBFS
Channel Crosstalk (measured at 1 kHz, 0 dB gain)		-84		dBFS
Analog Frequency Response (+/- 3 dB at 200 Hz, +/- 1 dB at 20000 Hz)	200		20000	Hz
Input Resistance				
0 dB		15.8		k Ω
10-40 dB		5.0		
Input Capacitance		5		pF

Ordering Information

Model/Order/Part Numbers				Supported Functions			Operating Temperature
Device Order Number	Audio Codec Part Number	Revision	Audio Codec Package Type	Integrated Mono Class-D Amplifier	Number of DACs/ADCs	Digital Mic	
CX20632-11Z	CX20632-11Z	-11Z	48-QFN	Y	6/6	Y	0 to 70 °C

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