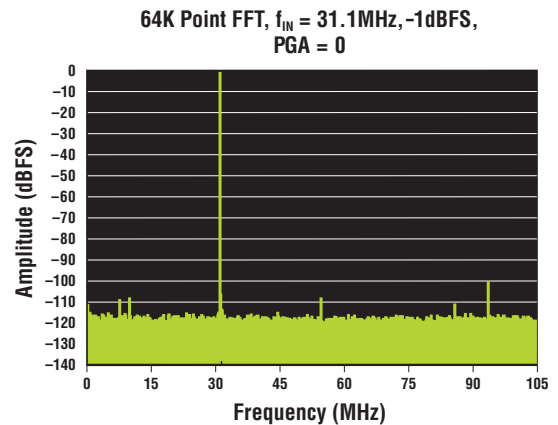
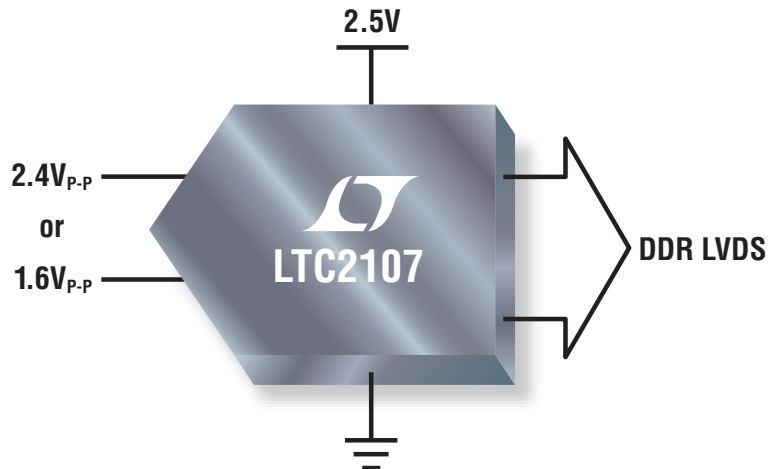


16-Bit 210MSPS ADC 98dB SFDR

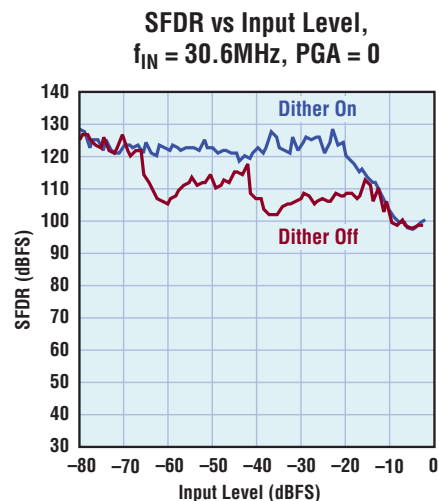


LTC2107 Achieves 80dB SNR from Single 2.5V Supply

The LTC2107 is a high performance 16-bit 210MSPS ADC delivering exceptional dynamic range performance for the most demanding wideband, low noise, signal acquisition applications. Exceptional aperture jitter of only 45fs_{RMS} enables direct sampling of frequencies up to 500MHz with excellent SNR performance. The internal transparent dither circuit dramatically improves low level input SFDR, while the digital output randomizer eliminates digital coupling between the ADC outputs and analog input.

Features

- 98dBFS SFDR
- 80dBFS SNR Noise Floor
- Aperture Jitter = 45fs_{RMS}
- PGA Front-End 2.4V_{P-P} or 1.6V_{P-P} Input Range
- Optional Internal Dither
- Optional Data Output Randomizer
- Power Dissipation: 1280mW
- Shutdown Mode
- Serial SPI Port for Configuration
- Clock Duty Cycle Stabilizer
- 48-Lead (7mm x 7mm) QFN Package



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High Speed ADC Portfolio

	10Msps	20Msps	25Msps	40Msps	65Msps	80Msps	105Msps	125Msps to 150Msps	170Msps	210Msps	250Msps	310Msps
16-Bit	Single	2202	2201	2203	2204	2205 2215 2272	2206 2216 2273	2207 2217 2274	2208	2209	2107	
	Dual		2269	2160	2161	2162	2163	2164	2165			
14-Bit	Single	2245		2246	2247	2248	2249	2254	2255			
	Dual	2295		2296	2297	2298	2299	2284	2285	2155-14	2156-14	2157-14
	Quad			2170-14	2171-14	2172-14	2173-14	2174-14	2175-14			
	Octal			9006-14	9007-14	9008-14	9009-14	9010-14	9011-14			
12-Bit	Single	2225		2226	2227	2228	2229	2252	2253	2221	2220	2241-12
	Dual	2290		2291	2292	2293	2294	2282	2283		2155-12	2156-12
	Quad			2170-12	2171-12	2172-12	2173-12	2174-12	2175-12			
	Octal			9006-12	9007-12	9008-12	9009-12	9010-12	9011-12			
10-Bit	Single			2236	2237	2238	2239	2250	2251	2231	2230	2241-10
	Dual			2286	2287	2288	2289	2280	2281			

Parallel



1.8V Lowest Power, Single & Dual ADCs, CMOS/DDR CMOS/DDR LVDS



3.3V High SNR/SFDR ADCs, CMOS/LVDS



2.5V High SNR/SFDR ADC, DDR LVDS



3.3V/2.5V ADCs, CMOS/LVDS



1.8V High IF Undersampling Single & Dual ADCs, DDR LVDS



Dual ADCs, DDR LVDS



3V ADCs, CMOS



3V Dual ADCs, CMOS

Serial



3.3V Single ADCs, JESD204



1.8V Dual ADCs, Serial LVDS



1.8V Dual ADCs, JESD204B



1.8V Dual ADCs, Serial LVDS



1.8V Quad ADCs, Serial LVDS



1.8V Octal ADCs, Serial LVDS