DATEL Innovation & Excellence

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Part Number ADS-1011LE-C, Sampling A/D Converters

The ADS-1011 is a serial output, low power, 10-bit A/D converter that is rated to withstand up to 30k Rad. Operating from a supply range of 2.7 V to 5.5 V, these 2.5 µs successive approximation converters are available in commercial or extended operating temperature grades. The ADS-1011 offers a unique achitechture that includes a sample-hold, high speed microprocessor compatible serial data transfer while consuming less tah 2mW of power at 50 kHz throughput. These converters are available in a 24-pin LCC hermetically sealed ceramic package, with a -40°C to +100°C temperature range.

Specifications

Resolution	10 Bit
Number of Channels	1
Sampling Rate	0.4 MHz
Acquisition Time	2.5 ns
Power Consumption	20 W
Differential Non-Linearity Error/Other	1.0 LSB
Integral Non-Linearity Error/Other	1 LSB
Package Type	LCC-24pins
Input Range 1st (min)	0 V
Input Range 1st (max)	5 V
Required Supply Voltage 1st	5 V
Required Supply Voltage 3rd	2.7 V
Total Harmonic Distortion	65 dB
Signal to Noise Ratio	60 dB
Analog Bandwidth	25 MHz
Operating Temp. Range (min)	-40 °C
Operating Temp. Range (max)	+100 °C
RoHS	Yes
Status	Preliminary Product Information

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