



### Part Number ADS-931-C/883, Sampling A/D Converters

16 Bit, 1MHz (1MSPS), Sampling Analog to Digital (A/D) Converter,  $\pm 2.75\text{V}$  or 0 to  $-5.5\text{V}$  Input range,  $-55^\circ\text{C}$  to  $+125^\circ\text{C}$  temperature range, High Reliability 883 Screening, RoHS Compliant.

Image is for illustration purposes only

### Specifications

Resolution	16 Bit
Number of Channels	1
Sampling Rate	1 MHz
Power Consumption	1.85 W
Differential Non-Linearity Error/Other	0.5 LSB
Integral Non-Linearity Error/Other	2.0 LSB
Package Type	TDIP
Input Range 1st (min)	$-2.75\text{ V}$
Input Range 1st (max)	$2.75\text{ V}$
Input Range 2nd (min)	$-5.5\text{ V}$
Input Range 2nd (max)	$0\text{ V}$
Required Supply Voltage 1st	$5\text{ V}$
Required Supply Voltage 2nd	$-5\text{ V}$
Total Harmonic Distortion	$-87\text{ dB}$
Signal to Noise Ratio	$86\text{ dB}$
Analog Bandwidth	$4.8\text{ MHz}$
Operating Temp. Range (min)	$-55^\circ\text{C}$
Operating Temp. Range (max)	$+125^\circ\text{C}$
RoHS	Yes
Status	Recommended for new design

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