

**Item # ADS-946GM-C, Sampling A/D Converters**

List Price

**Sampling A/D Converters**

14 Bit, 8MHz (8MSPS), Sampling Analog to Digital (A/D) Converter.  $\pm 2V$  Input range,  $-55^{\circ}C$  to  $+125^{\circ}C$  temperature range, surface mount package, RoHS Compliant.



Image is for illustration purposes only

**SPECIFICATIONS**

Resolution	14 bits
Number of Channels	1
Sampling Rate	8 MHz
Power Consumption	2 W
Differential Non-Linearity Error/Other	0.5 LSB
Integral Non-Linearity Error/Other	0.75 LSB
Package Type	SMT
Input Range 1st (min)	-2 V
Input Range 1st (max)	2 V
Required Supply Voltage 1st	5 V
Required Supply Voltage 2nd	-5 V
Total Harmonic Distortion	-81 dB
Signal to Noise Ratio	76 dB
Analog Bandwidth	30 MHz
Operating Temp. Range (min)	-55 $^{\circ}C$

Operating Temp. Range (max)	125 °C
RoHS	Yes
Status	Recommended for new design