

Item # ADS-946GC-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, 0°C to +70°C temperature range, surface mount package, RoHS Compliant.



Image is for illustration purposes only

SPECIFICATIONS

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| 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) | 0 °C |

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|-----------------------------|----------------------------|
| Operating Temp. Range (max) | 70 °C |
| RoHS | Yes |
| Status | Recommended for new design |