



Part Number 5962-9475701HXA, 14-Bit, 1 MHz Analog to Digital Converter

The 5962-9475701HXA is a 14-Bit, 1 MHz (1MSPS) Analog to Digital (A/D) Converter with no pipeline delay. It is a Standard Microcircuit Drawing (SMD) model of ADC-927/883 and is controlled by the USA Defense Logistic Agency (DLA). The 5962-9475701HXA offers a $\pm 5V$ Input range and samples input signals up to Nyquist frequencies with no missing codes. The 5962-9475701HXA features outstanding dynamic performance including a THD of $-80dB$.

This Converter operates over a wide temperature range of $-55^{\circ}C$ to $+125^{\circ}C$. Applications include radar, sonar, spectrum analysis, and graphic/medical imaging.

Please contact DATEL if you are in need for an SMD product that is not listed on our website.

Specifications

Resolution	14 Bit
Number of Channels	1
Sampling Rate	1 MHz
Acquisition Time	445 ns
Power Consumption	1.9 W
Differential Non-Linearity Error/Other	0.75 LSB
Integral Non-Linearity Error/Other	1.5 LSB
Package Type	DDIP
Input Range 1st (min)	-5 V
Input Range 1st (max)	5 V
Required Supply Voltage 1st	5 V
Required Supply Voltage 3rd	15 V
Required Supply Voltage 4th	-15 V
Total Harmonic Distortion	-87 dB
Signal to Noise Ratio	76 dB
Analog Bandwidth	7 MHz
Operating Temp. Range (min)	$-55^{\circ}C$
Operating Temp. Range (max)	$+125^{\circ}C$
RoHS	No
Status	Recommended for new design

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