



Part Number 5962-8850801XA, 12-Bit Analog to Digital Converter

The 5962-8850801XC is a 12-Bit, 10 μ Sec Analog to Digital (A/D) Converter with Programmable Input. It is Standard Microcircuit Drawing (SMD) model of ADC-HZ/883 and is controlled the USA Defense Logistic Agency (DLA). The 5962-8850801XC offers five input voltage ranges which are programmable by external pin connection. ($\pm 2.5V$, $\pm 5V$, $\pm 10V$, 0 to +5V, 0 to +10V). An internal buffer amplifier is also provided for applications in which 50 megohm input impedance is required.

This Converter operates over a wide temperature range of $-55^{\circ}C$ to $+125^{\circ}C$. Output coding is complementary binary, complementary offset binary, or complementary two's complement and Serial data is also brought out.

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

Specifications

Resolution	12 Bit
Number of Channels	1
Differential Non-Linearity Error/Other	0.75 LSB
Integral Non-Linearity Error/Other	0.5 LSB
Input Range 1st (min)	0 V
Input Range 1st (max)	5 V
Input Range 2nd (min)	0 V
Input Range 2nd (max)	10 V
Input Range 3rd (min)	-2.5 V
Input Range 3rd (max)	2.5 V
Input Range 4th (min)	-5 V
Input Range 4th (max)	5 V
Input Range 5th (min)	-10 V
Input Range 5th (max)	10 V
Required Supply Voltage 1st	5 V
Required Supply Voltage 3rd	15 V
Required Supply Voltage 4th	-15 V
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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