

Item # ADC-HX12GBC-C, Legacy Analog-to-Digital Converters

List Price

Legacy Analog-to-Digital Converters



The ADC-HX and ADC-HZ Series are self-contained, high-performance, 12 Bit A/D converters manufactured with thick and thin-film hybrid technology. They use the successive approximation conversion technique to achieve a 12 Bit conversion in 20 and 8 microseconds, respectively. Five input voltage ranges are programmable by external pin connection. An internal buffer amplifier is also provided for applications in which 50 megohm input impedance is required.

Image is for illustration purposes only

SPECIFICATIONS

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| Description | 12 Bit, 20 μ Sec Analog to Digital (A/D) Converter with Programmable Input. $\pm 2.5V$, $\pm 5V$, 0 to +5V, 0 to +10V Input ranges, 0 $^{\circ}C$ to +70 $^{\circ}C$ temperature range, RoHS Compliant. |
| Resolution | 12 bits |
| Number of Channels | 1 |
| Sampling Rate | 0.05 MHz |
| Power Consumption | 1.1 W |
| Differential Non-Linearity Error/Other | 0.75 LSB |
| Integral Non-Linearity Error/Other | 0.5 LSB |
| Package Type | TDIP |
| 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 |

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| 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) | 0 °C |
| Operating Temp. Range (max) | 70 °C |
| RoHS | Yes |
| Status | Recommended for new design |