

Specifications

AIM4 ANALOG INPUT MODULE 4

Input channels: 4, isolated from each other and ground

Input characteristics.

Gain: x1, x100, switch selectable for each channel. User configurable for other gains with optional resistor.

Input range: x1, $\pm 5V$ max
x100, $\pm 50mV$ max

Accuracy:

Gain: x1, $\pm 0.2\%$
x100, $\pm 0.2\%$ adjustable to 1 lsb

Gain non-linearity: $\pm 0.02\%$ max

Input offset: $\pm 50uV$ max, adjustable to zero
Output offset: $\pm 12mV$ max, adjustable to zero

Temperature coefficient:

x1, $\pm 0.0025\%/^{\circ}C$
x100, $\pm 0.0050\%/^{\circ}C$
Input offset: $\pm 5uV/^{\circ}C$
Output offset: $\pm 50uV/^{\circ}C$

Input noise voltage: $1uV$ p-p, 0.01Hz to 100Hz, $R_S < 1kohms$

Input bias current. $+ 8nA$ max

Input resistance: 100Mohms

Protection: 130V RMS max normal mode, $f \leq 60Hz$

Isolation: 500V peak, channel to channel or channel to ground

Common mode rejection: 145dB, x100, $R_S < 100 ohms$, $f \leq 60Hz$

Normal mode rejection. 55db, x100, $f \geq 50Hz$

Settling time after channel selection: 2.5 ms to 0.01% , assuming settled input

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