

Specifications

AIM3 ANALOG INPUT MODULE 3

Input channels: 16 differential or 32 single ended

Input characteristics:

Switch selectable gains: x1, x10, x100

Input range:

x1, $\pm 10V$

x10, $\pm 1V$

x100, $\pm 100mV$

Input protection:

$\pm 30V$ max (Powered)

$\pm 10V$ max (Unpowered)

Accuracy:

x1, $\pm(0.01\% + 20\mu V)$

x10, x100, $\pm(0.01\% + 10\mu V)$

Non-linearity: 0.005% of F.S.

Temperature coefficient:

x1, $\pm(0.001\% + 10\mu V)/^{\circ}C$

x10, $\pm(0.002\% + 4\mu V)/^{\circ}C$

x100, $\pm(0.002\% + 2\mu V)/^{\circ}C$

Common mode rejection ratio: $>80dB$, DC to 60Hz

Input bias current: $<1nA$

Input resistance: $>100M\Omega$

Input noise voltage:

5 μV p-p, 0.1Hz to 10Hz

10 μV rms, 10Hz to 30 kHz

Settling time to 0.01%:

x1, 15 μs

x10, 30 μs

x100, 75 μs

Slew rate (x1): 10V/ μs

Small signal bandwidth: 130kHz

Reference junction sensor:

Output: $+100mV/^{\circ}C$

Accuracy: $\pm 0.25^{\circ}C$

Temperature coefficient: $\pm 0.1^{\circ}C/^{\circ}C$

NOTE: All amplifier specifications with respect to input.

PART NUMBER

SPEC-AIM3

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