

AIM9 Specifications

Input Characteristics

Input Channels (local): 2 differential and balanced to ground
 Gain: Adjustable per channel, 1 to 20
 Input Dynamic Range: $\pm 3.5\text{V}$ peak max without distortion
 Input Protection: $\pm 15\text{V}$ max (powered)
 $\pm 10\text{V}$ max (unpowered)
 Input Resistance: $100\text{k}\Omega$ each input to common
 Common Mode Rejection: 60dB @ 60Hz
 Nonlinearity: 0.05% of full scale
 Quadrature Balance Range: adjustable, $\pm 90^\circ$
 Phase Balance Range: adjustable, $\pm 125\text{mV}$ @ $\times 1$ gain
 Bandwidth: software selectable five pole filter (-3dB), 2, 20 or 200Hz
 Settling Time (to 0.01%):

2Hz	1000ms
20Hz	100ms
200Hz	20ms

Noise: (residual carrier with 10:1 or greater oscillator to filter ratio),
 1mV p-p

Temperature Coefficient:

Gain: $200\text{ppm}/^\circ\text{C}$
 Offset: $100\text{ppm}/^\circ\text{C}$

Excitation Characteristics:

Frequency: selectable per system, 1k, 2k, 5k, 10k or 20kHz with
 master/slave synchronization for up to 10 modules
 Frequency Accuracy: $\pm 3\%$
 Amplitude: 5Vrms $\pm 10\%$
 Third Harmonic Distortion: 1%
 Amplitude Stability versus Load (100Ω min): $.01\%$
 Temperature Coefficient: Frequency: $+200\text{ppm}/^\circ\text{C}$
 Amplitude: $40\text{ppm}/^\circ\text{C}$

Power Requirements:

+15Vdc	60mA (100mA)-No load (max loads)
-15Vdc	90mA (125mA)
+5Vdc	60mA

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