

SPECIFICATIONS

PART NUMBER

SPEC-AMMI

Input Channels

Global: 9 inputs from slots 2-10
Local: 8 single-ended

Global Programmable Gain Amplifier:

Software programmable gains: x1, x2, x5, x10
Input range: x1, $\pm 10V$
x2, $\pm 5V$
x5, $\pm 2V$
x10, $\pm 1V$

Δ Accuracy: **x1, x2, Gain, $\pm (0.01\% + 50\mu V)$, x5, x10, Gain, $\pm (0.015\% + 50\mu V)$**
Non-linearity: $\pm 0.005\%$ of full scale
Temperature coefficient: $\pm (0.001\% + 20 \mu V) / \text{deg C}$
Input noise voltage: 30 μV p-p, 0.1Hz to 10KHz
Settling time to 0.01%: 6 μs
Small signal bandwidth: 280KHz

Analog to Digital Converter

Resolution: 12 bits, 1 part in 4096
Input ranges: $\pm 2.5V$, $\pm 5V$, $\pm 10V$, 0 to + 5V, 0 to + 10V
Nonlinearity: $\pm 0.025\%$ (± 1 lsb)
Nonlinearity temperature coefficient: $\pm 0.003\% / \text{C}$
Accuracy*: $\pm (0.03\% + 1$ lsb)
Accuracy temperature coefficient: $\pm (0.0035\% \pm 0.1\text{lsb}) / \text{C}$
Sample and hold acquisition time: 5 μs
Conversion time: 25 μs max

Global 10.000 Volt Reference

Accuracy: $\pm 0.01\%$
Temperature coefficient: $\pm 0.002\% / \text{deg C}$
Load current: 10mA max
Noise: 20 μV p-p, 0.1Hz to 10Hz
10 μV RMS, 10Hz to 30KHz

NOTE: All amplifier specifications are with respect to input.

* includes nonlinearity

TJD:cp

LTR	REVISIONS	APP.	DATE	DRN. <i>Mark</i>	DATE <i>4/30/85</i>
A	RELEASED			CKD.	DATE
B	REVISED	<i>10595</i>	<i>MZ</i>	<i>4.30.85</i>	APP. DATE

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