

MODELS 3222/3322

40Vp-p PXIBus / PCIBus Signal Amplifiers

Specification

CONFIGURATION

Channels:	1 single-ended output
Interface:	
3222	PXIBus
3322	PCIBus

INPUT CHARACTERISTICS

No. of channels:	1
Connector:	Front panel BNC
Impedance:	50 or 1M
Coupling	DC Coupled
Damage Level:	
50	±2V
1M	±5V
Frequency Range:	DC to 20MHz

OUTPUT CHARACTERISTICS

GENERAL

Connector:	Front panel BNC
Impedance:	50 , 75 , or 600
Coupling:	DC Coupled
Protection:	Short-circuit, 10 seconds
Gain:	x10 ⁽²⁾ , fixed
Polarity:	Normal or inverted
Amplitude:	0 to 20Vp-p into matching impedance 0 to 40Vp-p into high impedance

Max. Output Current: 200mA into 50

SQUARE WAVE CHARACTERISTICS

Transition Time:	< 22ns
Aberrations:	< 7%

SINE WAVE CHARACTERISTICS

Bandwidth:	-3dB
Small Signal	50MHz, at 2Vp-p
Large Signal	20MHz, at 20Vp-p
Accuracy:	±(3% of full-scale amplitude range + 25mV), Square wave at 1KHz
Flatness (10Vp-p):	
DC to 1MHz	5%
1MHz to 15MHz	10%
THD:	0.1%, 10Hz to 100kHz
Harmonics (10Vp-p):	
100kHz to 5MHz	< -50dBc
5MHz to 20MHz	< -40dBc

GENERAL

Voltage:	+5V
Power Consumption:	7.2W max.
Current Consumption:	3.5A max.
Signal Ground:	Floated to the same level as the source, 250VDC max.
Dimensions:	Single slot, PXI/PCI
Weight:	
Without Package	0.5kg
Shipping Weight	1kg
Temperature:	
Operating	0°C to 50°C
Storage	-40°C to 70°C
Humidity:	80% RH, non condensing
Safety:	CE Marked, IEC61010-1
Calibration:	1 year
Warranty (*):	3 years standard

ORDERING INFORMATION

MODEL	DESCRIPTION
3222-50-50-10-I-G ⁽¹⁾	40Vp-p PXIBus Single Channel Signal Amplifier
3322-50-50-10-I-G(1)	40Vp-p PCIBus Single Channel Signal Amplifier
Input Impedance:	50 = 50Ω 1M = 1MΩ ⁽³⁾
Output Impedance:	50 = 50Ω 75 = 75Ω 600 = 600Ω
Gain:	10, 1 through 10, fixed ⁽²⁾
Polarity:	I = Inverted N = Normal
Signal Ground:	G = Tied to Ground F = Floated Ground

⁽¹⁾ Standard Configuration

⁽²⁾ Custom gain from x10 to x20 can be ordered however, bandwidth may change.

⁽³⁾ 1MΩ is available with none inverting output polarity only.

⁽⁴⁾ Specification is given for the standard configuration only

^(*) Standard warranty in India is 1 year.