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Find the *Tabor Electronics 3222-50-50-4-N-F* at our website: ***Click HERE***

MODELS 3222/3322

40Vp-p PXIBus / PCIBus Signal Amplifiers



MODELS 3222/3322

40Vp-p PXIBus / PCIBus Signal Amplifiers

- Large signal bandwidth to 15MHz
- Small signal bandwidth to 30MHz
- High amplitude to 40Vp-p (into high impedance)
- Slew rate to 500V/µs
- Low distortion
- Custom Configuration of:
  Gain
  Input impedance
  Output impedance
  Output configuration

Model 3222/3322 is a 3U single-slot, signal amplifier designed for signal amplification. Offering unmatched signal purity, model 3222/3322 amplifies signals from DC to over 20MHz. The unit has a fixed gain of x10, however, the same amplifier is available with custom gain, with no signal purity or performance degradation.

Solves Common Problems

A common problem with PXI & PCI equipment is the inability to produce high voltages resulting from low power supply rails. For example, waveform generators or similar signal source devices draw power from 12V rails. Consequently, they cannot produce signals above 10Vp-p into 50Ω. Model 3222/3322 solves this problem by using DC/DC converters to increase rail voltages which, along with custom components and unique design, enable amplification of input signals to 40Vp-p into high impedance, or 20Vp-p into 50Ω.

Allows Full Current Rating to Other Devices

The power amplifier draws current only from the +5V rail, leaving the other power supply rails free to supply their full current rating to other devices.

Ground Level

Model 3222/3322 can be supplied with input and output connectors that are isolated from case ground allowing the amplifier to float from case ground level up to 250VDC. The only limitation is that both the input and output grounds must connect to the same ground level. This capability is extremely important in applications where the amplifying device must reside on the same ground level as its source. The floating capability can be added or removed using a simple, user-accessible jumper connection.

Target applications

Although the model 3222/3322 wideband amplifier occupies a single slot, its performance is unique and outstanding by any standards. With 40Vp-p and over 20MHz bandwidth one can use model 3222/3322 for virtually any application. A common application is in the automotive industry where signals need to be in the 12V to 28V range. Another application would be in the aviation industry where even higher levels are required to route signals throughout the aircraft body.

Cost effective solution

Model 3222/3322 is a cost-effective, versatile power amplifier that opens the door to numerous applications, specifically implemented with PXI/PCI equipment.

MODELS 3222/3322

40Vp-p PXIBus / PCIBus Signal Amplifiers

45 YEARS OF INNOVATION

Specification

CONFIGURATION

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

INPUT CHARACTERISTICS

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

OUTPUT CHARACTERISTICS

GENERAL

Connector:	Front panel BNC
Impedance:	50Ω, 75Ω, or 600Ω
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 50Ω

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 to100kHz
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.

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