



BIPOLAR LOW NOISE VOLTAGE AMPLIFIER

- **ULTRA LOW NOISE - DOWN TO 280pV/√Hz**
- **BANDWIDTH - FROM 200Hz TO 100MHz**
- **HIGH GAIN - UP TO 60dB**



DESCRIPTION:

The **322 Series** are high gain, low noise bipolar voltage amplifiers designed to be used with instruments and transducers with low source impedances. Other models are available with bias supplies suitable for MCT detectors (-MCT option, consult factory for price and availability).

SPECIFICATIONS:

Input

Impedance 50Ω for -4 thru -12
(add -50 to part number)
75 to 125Ω for -9 thru -12
(add -100 to part number)
150 to 250Ω for -4 thru -8
(add -200 to part number)

Output

Load 50Ω
Swing 5V pk-pk AC coupled

Polarity

Non-Inverting

Power

+15VDC at 60mA typical

Temperature

-20° to +70°C

Connections

Input/Output BNC
Power Filter feed-thru pins and ground lug

Size

3.12" x 1.50" x 1.09" (-4 thru -8)
3.12" x 2.93" x 1.09" (-9 thru -12)

Specifications subject to change without notice.

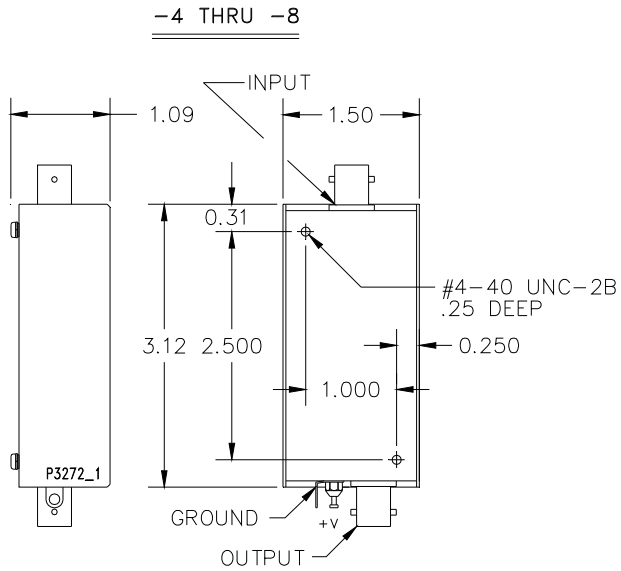


APPLICATIONS:

Ultra Low Noise Amplifiers for Low Impedance Sources

		MODEL NUMBER			
		GAIN			
		40dB	60dB	40dB	60dB
BANDWIDTH ± 20%	≤ 200Hz to 10MHz	322-4	322-7	322-9	322-11
	≤ 200Hz to 45MHz	-----	322-8	-----	322-12
	≤ 200Hz to 60MHz	322-5	-----	322-10	-----
	≤ 200Hz to 100MHz	322-6	-----	-----	-----
NOISE ± 20%	Voltage Noise (Shorted Input)	380pV/√Hz	350pV/√Hz	280pV/√Hz	280pV/√Hz

Typical Part Number: 322-6-200 = Bandwidth: ≤ 200Hz to 100MHz
 Gain: 40dB
 Noise: 380pV/√Hz
 Input Impedance: 150 to 250Ω



DIMENSION ARE IN INCHES

