beehive
ELECTRONICS

150A EMC Probe Amplifier

Description

The 150A EMC probe amplifier is a low-noise, wide-bandwidth amplifier designed for use with the Beehive Electronics 100 series EMC probes.

The 150A is typically placed between the EMC probe and the spectrum analyzer. Its high gain and low noise improve the system sensitivity dramatically. This higher sensitivity allows the user to widen the spectrum analyzer resolution bandwidth, resulting in faster sweeps and measurements. Depending on the model of spectrum analyzer used, sensitivity can be improved by 20 to 30 dB.

Features

- High gain and low noise improves measurement sensitivity and speed.

- Wide bandwidth allows it to be used with all 100 series probes.

- RF input and output protected against ESD and DC power.

- AC power supply included.

- Standard 50 ohm inputs and outputs allow it to be used in any application requiring a low noise amplifier.

Specifications

Gain

32 dB

Frequency Response
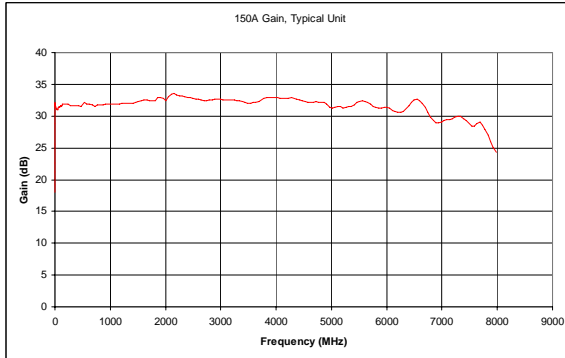
100 kHz to 6.0 GHz: +/- 1.5 dB
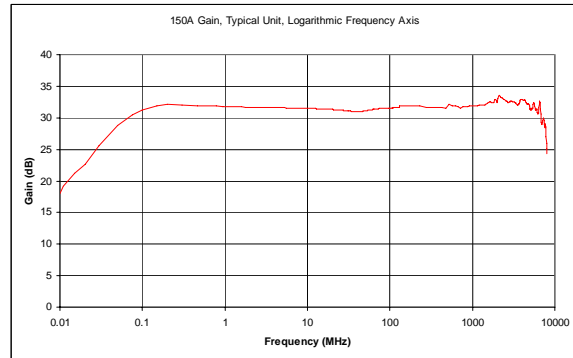

Fig 1: Typical frequency response

Fig 2: Typical freq. response, log scale

Noise Figure

5 dB typical, 100 kHz to 4.0 GHz
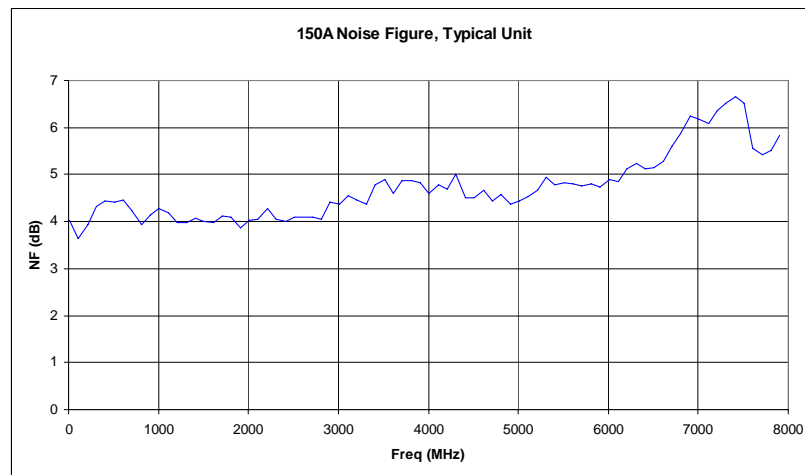6 dB typical, 4.0 GHz to 6.0 GHz

Fig 3: Typical noise figure

1dB Output Compression Point

+10 dBm, 100 kHz - 2 GHz
+5 dBm, 2 GHz – 6 GHz

Port Characteristics

Impedance

50 ohms nominal

Maximum Input Power

+15 dBm

Maximum DC Voltage

+/- 10 VDC

Connector

SMA female

Power

DC power input: +9VDC, 150 mA
Connector: DC power jack, 2mm center pin, positive center
Universal power supply (100-240 VAC, 50/60 Hz) included

Environmental

Operating temperature: 0C to 55C
Storage temperature: -20C to 70C

Dimensions

Height: 1.4"
Width: 4.3"
Depth: 4.2"

Warranty

1 year warranty
30 day unconditional return policy

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for BEEHIVE ELECTRONICS *manufacturer:*

Other Similar products are found below :

0309-0001   100D   100A   0309-0006   100C   150A   110A   101A