

Features

Broadband - 1 MHz - 1000 MHz

High Gain: 33 dB

Flat Response: ± 3 dB

Individual Calibration

Three Year Warranty



Description

The model PAM-103 are general purpose, broadband, high gain, bench top preamplifiers. These preamplifiers reduce floor noise and increase system sensitivity to low level signals during Electromagnetic Interference (EMC) testing. They also provide input isolation to your expensive test equipment. The PAM-103 has a frequency range of 1 MHz to 1000 MHz.

The simple front panel consists of two 50 Ω matched BNC connectors for input and output. The preamplifiers were designed to have minimal gain variation for the entire frequency range to reduce EMC measurement errors.

Each preamplifier is individually calibrated and the gain data is shipped with the unit. Power to the model PAM-103 is supplied by a 12 VDC, 500 mA with external wall mount adapter. The preamplifier can also be powered by batteries for field use. The same adapter charges the internal rechargeable battery pack.

Application

The PAM-103 is primarily used for EMC radiated emissions testing. These preamplifiers can be used during EMC testing for FCC, CISPR, EN, FAA and MIL-STD. This preamplifier could also be used in other applications that require a high gain preamplifier.

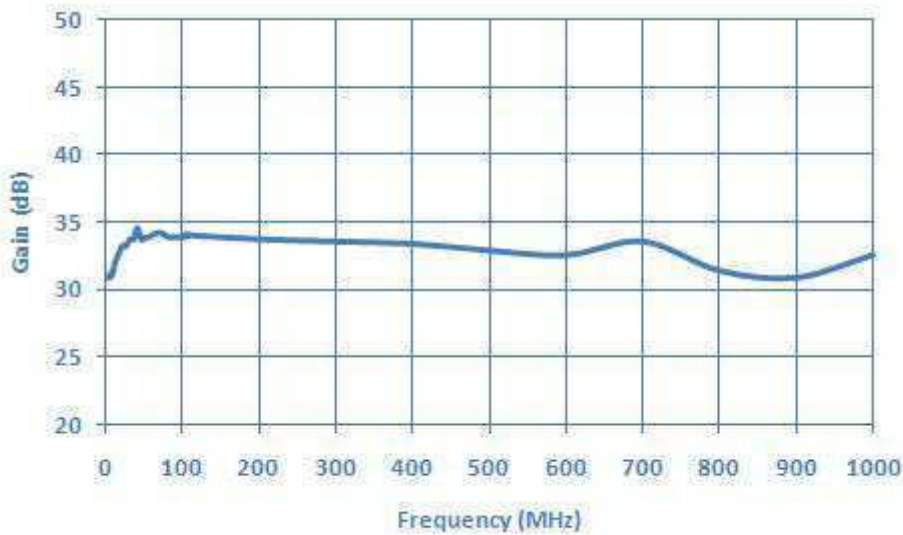
The enhanced system sensitivity due to high gain is very helpful when making EMC measurements using antennas on an Open Area Test Site (OATS) or probing a printed circuit board using Near Field Probes. This allows measurements of those frequencies from the equipment under test, that are not visible on the spectrum analyzer display unless amplified. The preamplifier gain will cause peaks to be visible above the background noise of the analyzer. These frequencies may go undetected if a preamplifier with a high gain was not used.

In addition, preamplifiers could improve sensitivity of counters and power meters. The PAM-103 can also be used to increase the available power from your sweeper or signal generator.

Specifications

Model	PAM-103
Frequency	1 MHz - 1000 MHz
Gain	33 dB
Flatness	± 3 dB
3 dB Bandwidth	500 kHz, 1200 MHz
Noise Figure	< 6 dB
P1dB	+4 dBm
VSWR	1.3:1
Reverse Isolation	>30 dB
Impedance	50 Ohms
Temperature Range	0° - 40° C
Max. DC Input	2 VDC, 0 dBm
Connector Type	BNC (f)
Input Power	12 VDC, 500 mA
Battery Pack:	6 V, 0.7 A NimH
Dimensions (L x W x H)	7.5" x 5" x 3" (9 x 13 x 7.6 cm)
Weight	3.3 lbs. (1.5 kg)

Typical Gain model PAM-103



All specifications are subject to change without notice.
All values are typical, unless specified.