

## Features

**Broadband** - 100 Hz - 30 MHz

**High Gain:** 28 dB

**Flat Response:**  $\pm 2$  dB

**Individual Calibration**



## Description

The model PAL-010 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 PAL-010 has a frequency range of 100 Hz to 30 MHz.

The simple front panel consists of two 50  $\Omega$  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 PAL-010 is supplied by a 12 VDC, 500 mA external wall mount adapter. The preamplifier can also be powered by batteries for field use. The same adapter charges the internal re-chargable battery pack.

## Application

The PAL-010 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.

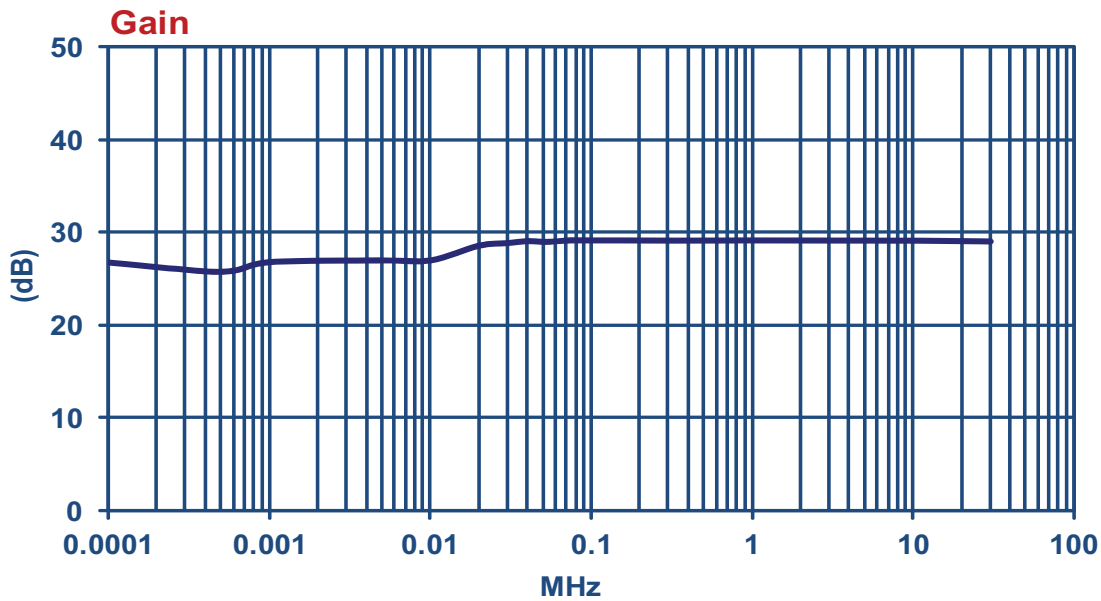
The enhanced system sensitivity due to high gain is very helpful when making EMC measurements using antennas on an Open Area Test Site (OATS) or probing a printed circuit board using Near Field Probes. This allows measurements of those frequencies from the equipment under test, that are not visible on 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 PAL-010 can also be used to increase the available power from your sweeper or signal generator.

# Specifications

Model	PAM-010
Frequency	100 Hz - 30 MHz
Gain	28 dB
Flatness	$\pm 2$ . dB
Impedance	50 $\Omega$
Max. DC Input	10 VDC, 2 dBm
Connector Type	BNC (f)
Input Power	12 VDC, 500 mA
Battery Pack:	Two 6 V, 0.7 A NimH
Dimensions (L x W x H)	7.5 x 5 x 3 Inch (9 x 13 x 7.6 cm)
Weight	3.3 lbs. (1.5 kg)

## Typical Gain



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