



Description

The EM-6992B Kit includes five probes (three (3) Magnetic Field probes and two (2) Electric Field Probes) as well as a 20cm extension handle for accessing hard-to-reach places. The probes are designed for the detection of E-Field and H-Field emissions and are suited for EMC/Pre-Compliance testing as well as performing basic electric and magnetic field sweeps.

The EM-6992B kit also includes the EM-6990B Broadband Preamplifier. The EM-6990B can improve measurement quality by increasing the sensitivity of the EMI analyzers, spectrum analyzers, oscilloscopes and many other devices without distortion of amplitude accuracy.

Specifications

Kit Contents

EM-6993: 6cm Loop H-Field Probe

EM-6994: 3cm Loop H-Field Probe

EM-6995: 1cm Loop H-Field Probe

EM-6996: 3.6cm Ball E-Field Probe

EM-6997: Stub E-Field Probe

EM-6990B: Broadband Preamplifier

Electrical

Probe Frequency Range: DC to >1GHz

Preamp Frequency Range: 10kHz – 2GHz

Preamp Gain: 31dB Typical above 1MHz

29 dB @ 100kHz

18 dB @ 10kHz

Impedance: 50Ω, Nominal

Connector: BNC (F) (EM-6992B)

Power Source: 15V 1A DC Power Supply (Included)

Mechanical Kit Dimensions:

Length: 33 cm (13")

Width: 27.9 cm (11")

Height: (5.5")

Weight: 2.22kg (4.9 lbs.)

Optional Accessories:

- 15V, 1A DC Power Supply (Included)
- BNC (m) to BNC (m) coaxial cable, 3ft.







Probe Characteristics

EM-6993 6 cm loop H-Field Probe E-Field rejection: 41 dB Resonant Frequency: 540 MHz

EM-6994 3 cm loop H-Field Probe E-Field rejection: 29 dB Resonant Frequency: 950 MHz

EM-6995 1 cm loop

H-Field Probe E-Field rejection: 11 dB Resonant Frequency: 2500 MHz

EM-6996 3.6-cm ball

E-Field Probe H-Field rejection: 30 dB Resonant Frequency: > 1000 MHz

EM-6997 6-mm stub tip

E-Field Probe H-Field rejection: 30 dB Resonant Frequency > 1500 MHz

*Data shown is typical, not guaranteed.











Description

The EM-6990B Broadband Preamplifier is used primarily with the EM-6992 Near Field Probe Set in performing EMI diagnostic testing. The EM-6990B provides a significant improvement in overall measurement sensitivity of the typical spectrum analyzer. Powered by an external +15V DC input, the EM-6990B features an integrated voltage regulation and filtering circuitry, ensuring reliable operation for both bench and field-testing scenarios.

Applications

The EM-6990B is a quality preamplifier with high performance, suitable for several applications. It improves the sensitivity of the EMI analyzers, spectrum analyzers, oscilloscopes and many other devices without distortion of amplitude accuracy.

Specifications

Electrical

Frequency Range: 10 kHz – 2 GHz

VSWR: 1.5:1 Average Input

1.7:1 Average Output

Gain: 31dB Typical above 1MHz

29 dB @ 100kHz

18 dB @ 10kHz

1dB Compression: -25dBm Nominal

Noise Figure: 4.75 dB Average above 10MHz

Gain Flatness: +/- 1 dB Typical

Impedance: 50Ω, Nominal

Connector: BNC (F) (EM-6990B | 10kHz - 2GHz)

Power Source: 15V 1A DC Power Supply (Included)

Mechanical

Dimensions:

Length:	76.00 mm (3.00 in.)
Width:	39.37 mm (1.55 in.)
Height:	46.50 mm (1.83 in.)
Weight:	400g (0.4 lbs.)

Color Options:

Black

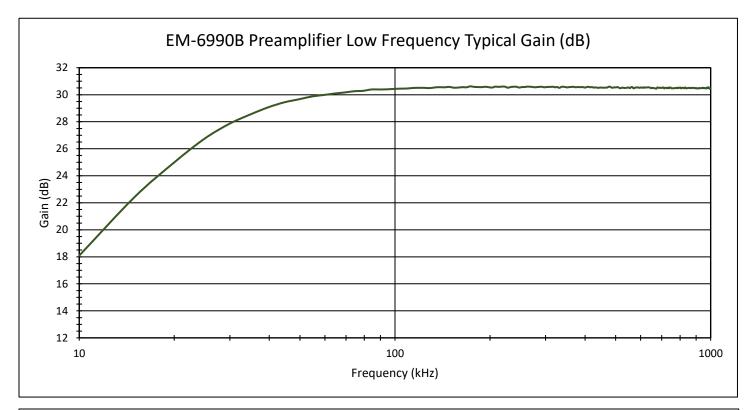
Optional Accessories:

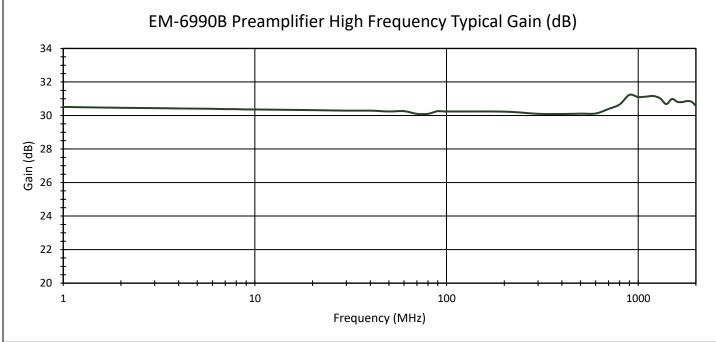
- 15V, 1A DC Power Supply (Included)
- BNC (m) to BNC (m) coaxial cable, 3ft.









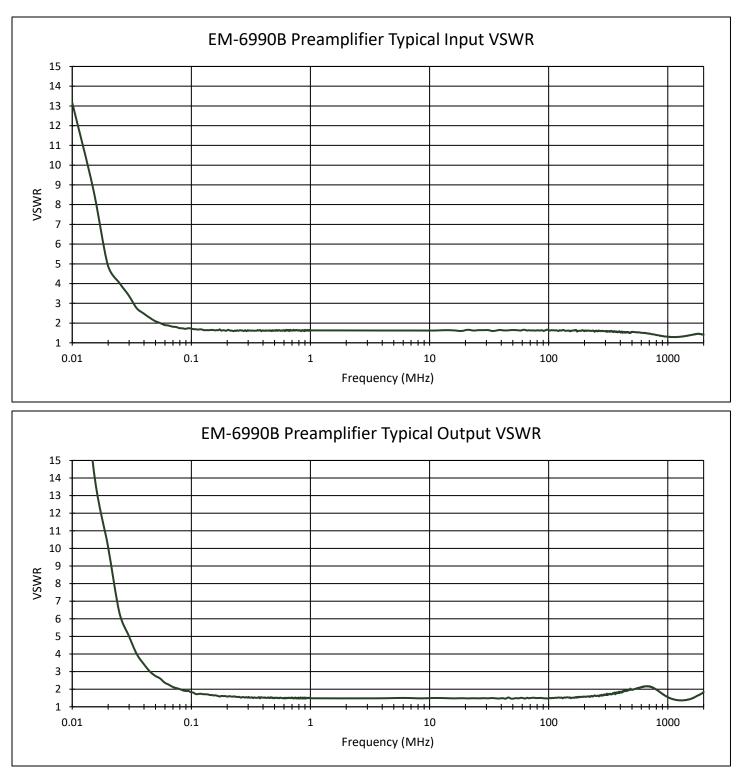


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