

EM-6992B | Magnetic and Electric Field Probe Kit with Preamplifier



Description

The EM-6992 Probe 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 detecting E-Field and H-Field emissions and are suited for EMC/Pre-Compliance testing as well as for basic electric and magnetic field measurements.

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

Electrical

Probe Frequency Range:	DC to >1000MHz
Preamp Frequency Range:	10 kHz – 2 GHz
Preamp Gain:	31 dB Typical above 1 MHz 29 dB @ 100 kHz 18 dB @ 10 kHz
Impedance:	50Ω, Nominal
Connector:	BNC (female)
Power Source:	15V 1A DC Power Supply (Included)

Mechanical

Length:	33 cm (13")
Width:	27.9 cm (11")
Height:	13.97 cm (5.5")
Weight:	1.96 kg (4.32 lbs.)
Optional Accessories:	15V, 1A DC Power Supply (Included) BNC (m) to BNC (m) coaxial cable, 3ft.

Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.



EM-6992B | Magnetic and Electric Field Probe Kit with Preamplifier**Kit Contents****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

**EM-6990B Broadband Preamplifier**

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EM-6992B | Magnetic and Electric Field Probe Kit with Preamplifier



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 the overall measurement sensitivity of the typical spectrum analyzer. Powered by an external +15V DC input, the EM-6990B features integrated voltage regulation and filtering circuitry, ensuring reliable operation in both bench and field testing scenarios.

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

Probe Frequency Range:	10 kHz – 2 GHz
VSWR:	1.5:1 Average Input 1.7:1 Average Output
Gain:	31 dB Typical above 1 MHz 29 dB @ 100 kHz 18 dB @ 10 kHz
1dB Compression:	-25dBm Nominal
Noise Figure:	4.75 dB Average above 10 MHz
Gain Flatness:	+/- 1 dB Typical
Impedance:	50Ω, Nominal
Connector:	BNC (F) (EM-6990B 10 kHz – 2 GHz)

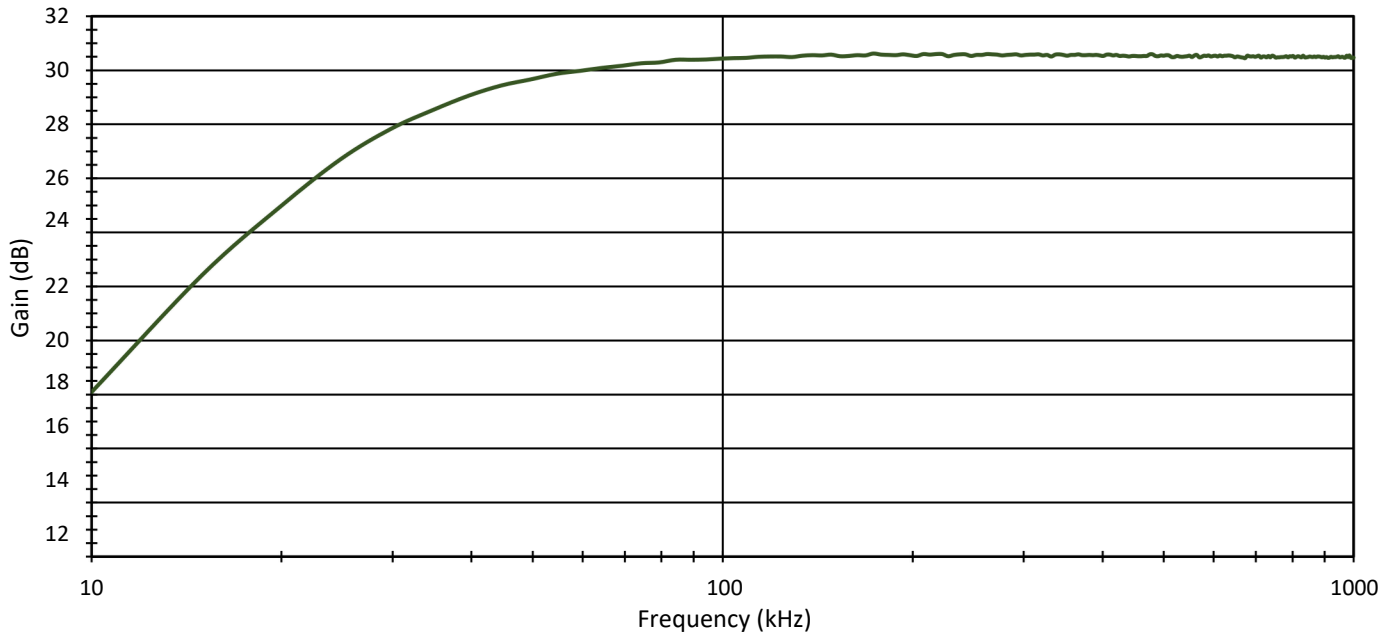
Mechanical

Length:	76.00 mm (3")
Width:	39.37 mm (1.55")
Height:	46.50 mm (1.83")
Weight:	400g (0.4 lbs.)
Color Options:	Black
Optional Accessories:	15V, 1A DC Power Supply (Included)
	BNC (m) to BNC (m) coaxial cable, 3ft.

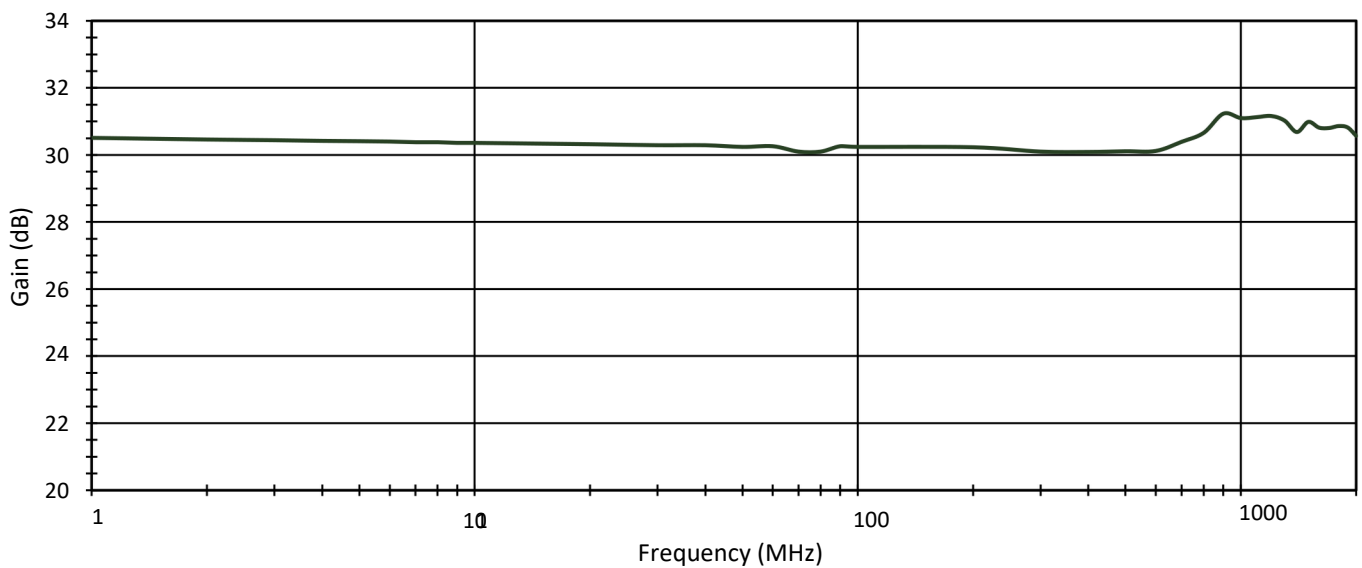
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EM-6990B Preamplifier Low Frequency Typical Gain (dB)



EM-6990B Preamplifier High Frequency Typical Gain (dB)

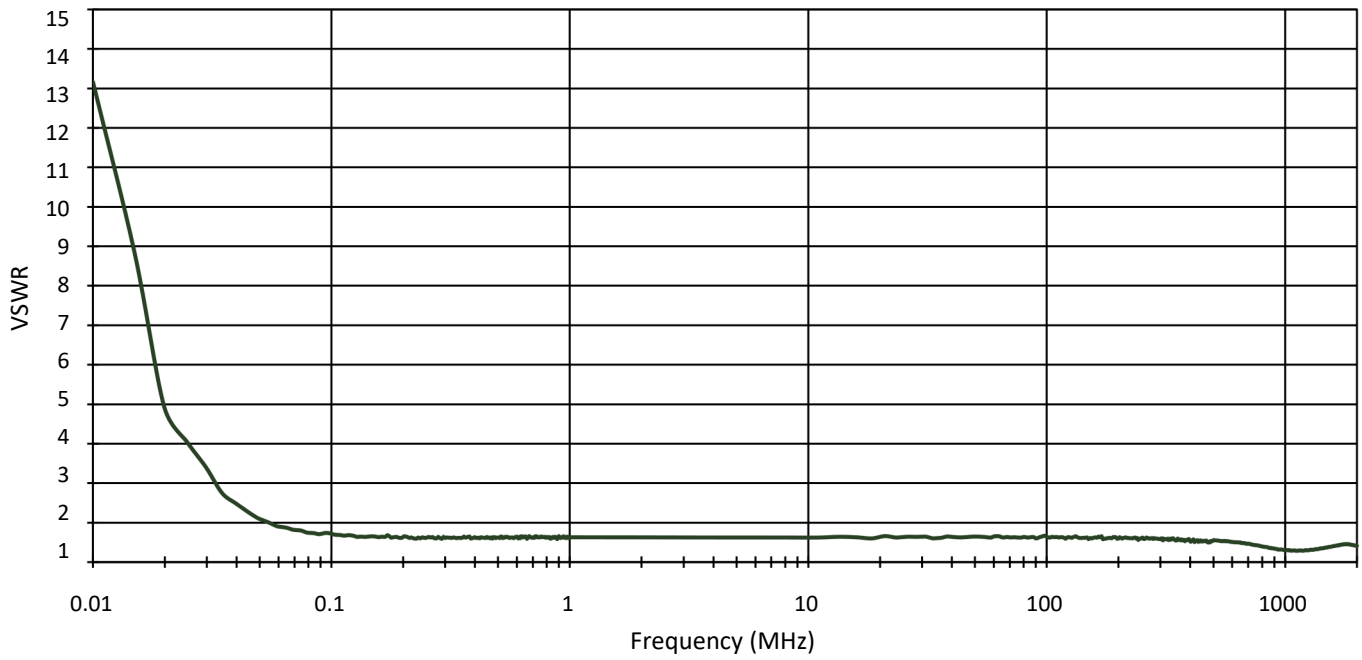


Data shown is typical, not guaranteed.

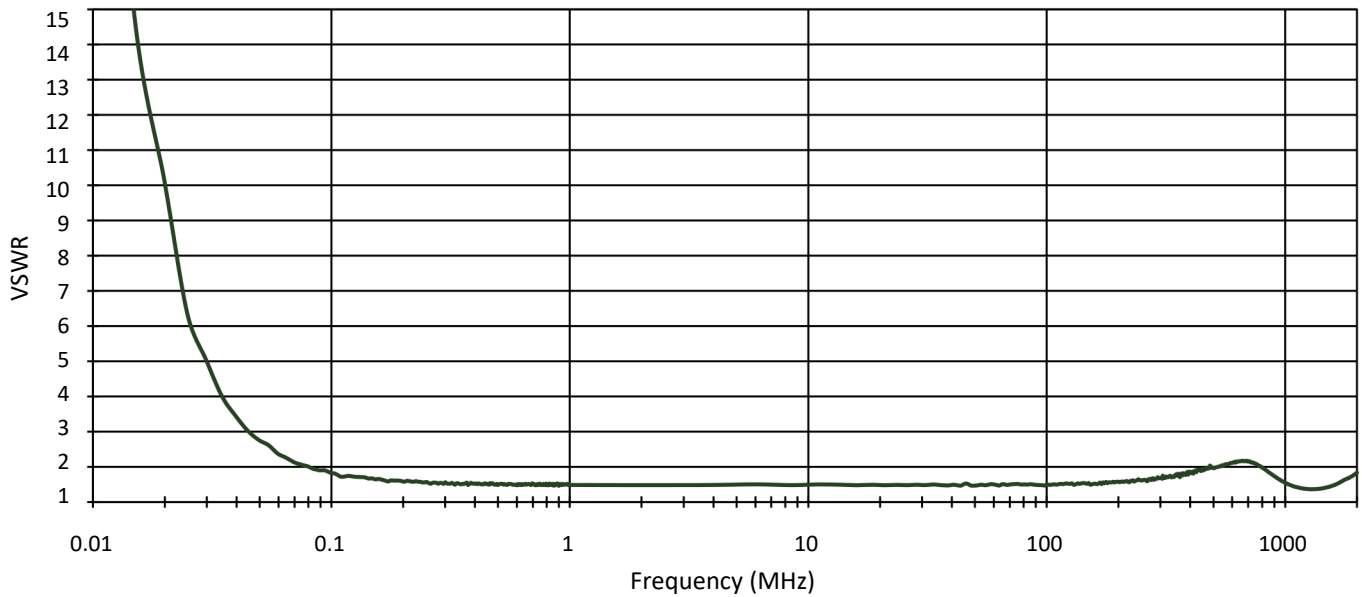
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EM-6990B Preamplifier Typical Input VSWR



EM-6990B Preamplifier Typical Output VSWR



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