

## EM-6990B | Broadband 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 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

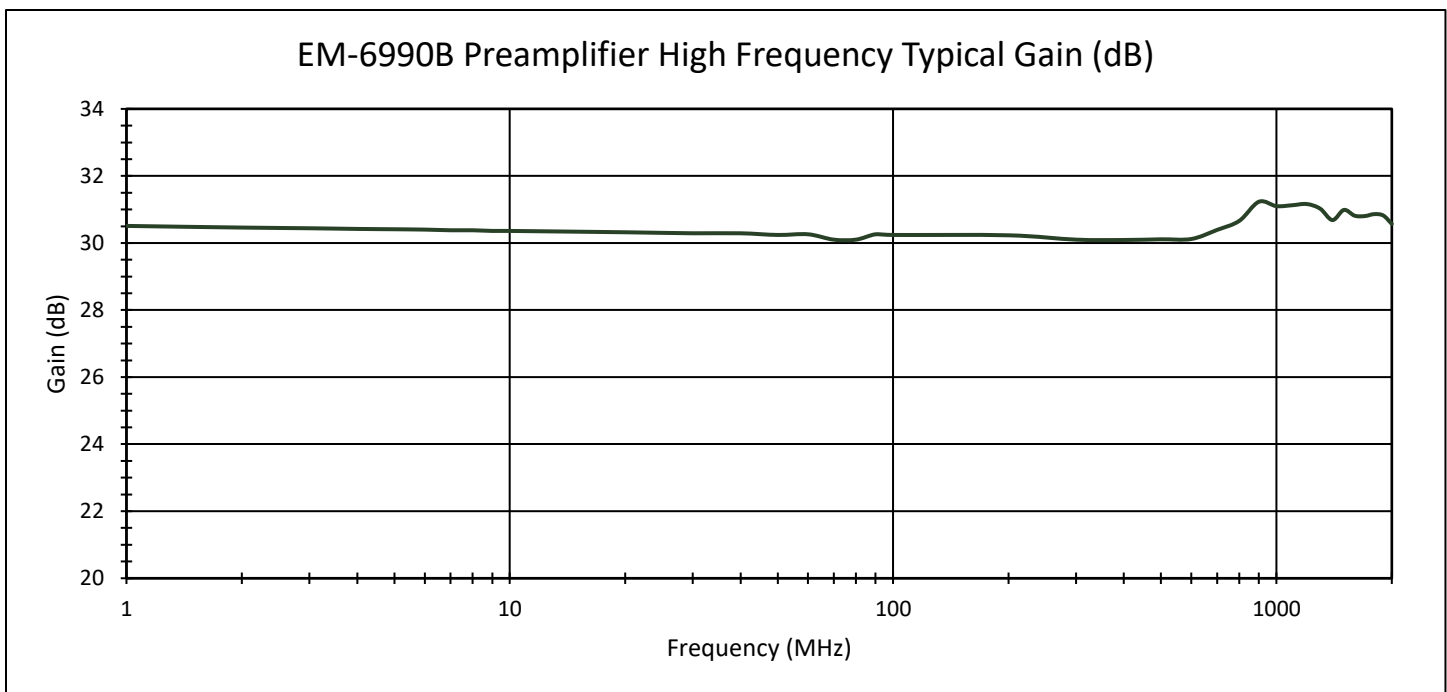
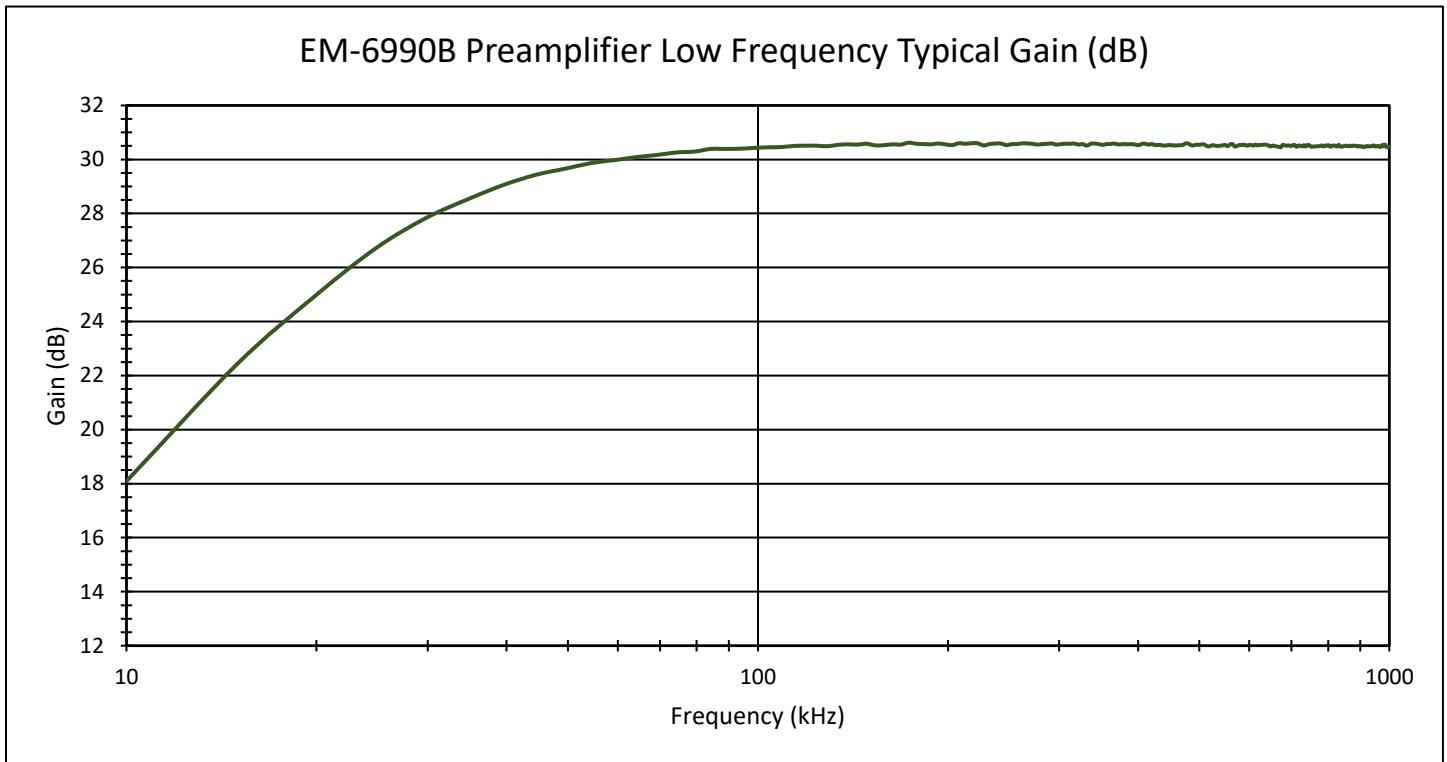
##### Optional Accessories:

- 15V, 1A DC Power Supply (Included)
- **EM-6992** Near Field Probe Kit
- BNC (m) to BNC (m) coaxial cable, 3ft.

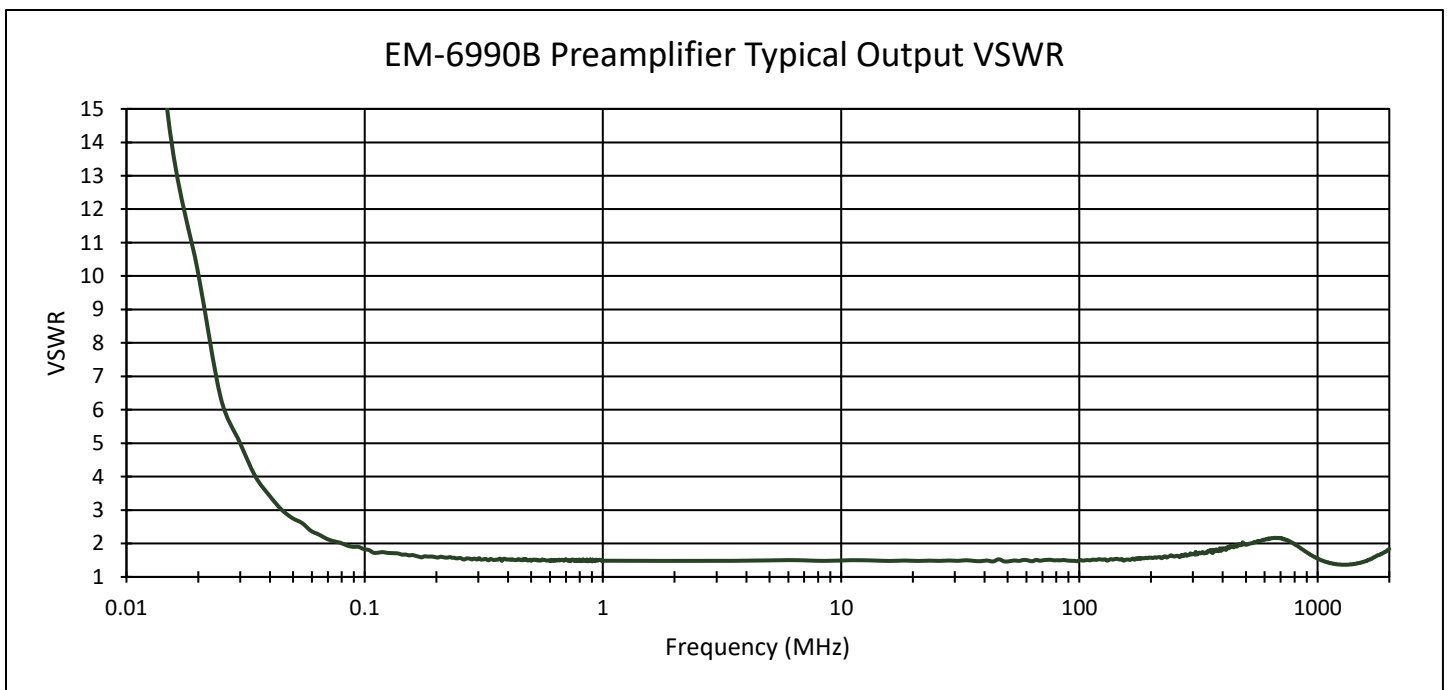
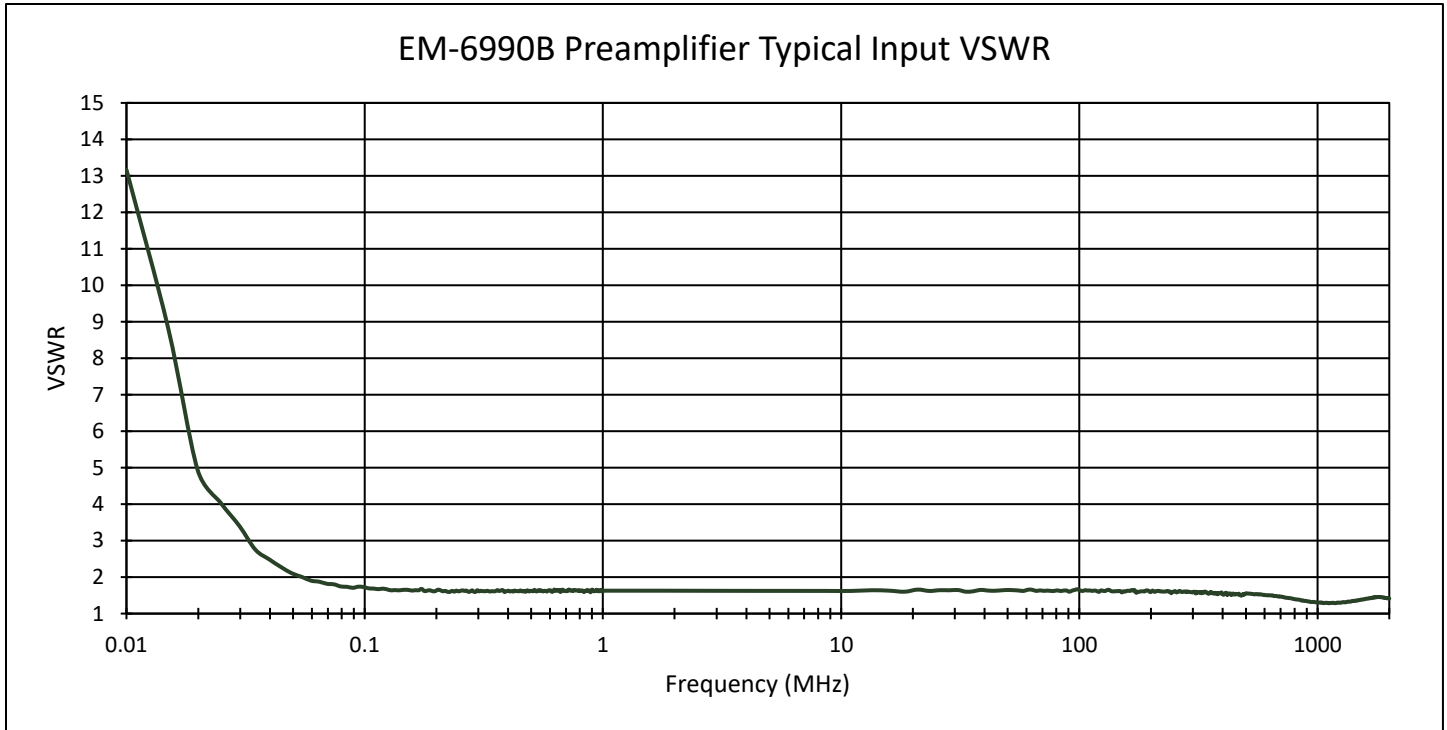
Specifications subject to change without notice, unless otherwise specified. Product is manufactured in Johnstown, NY, U.S.A.



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Data shown is typical, not guaranteed.

