

EM-6877 | Antenna, Active Loop



Description

The Electro-Metrics EM-6877 Active Loop Antenna is used with EMI Receivers and Spectrum Analyzers with 50Ω input and covers the frequency range of 9 kHz to 30MHz. The EM-6877's internal active circuitry, which is battery powered, equalizes the frequency response of the loop antenna so that the EM-6877 has a relatively constant antenna factor across the 9 kHz to 30 MHz range.

Applications

The EM-6877 is specifically designed to perform VDE 0871 LIMIT B, FCC part 15 and 18 testing plus SAE and other government and commercial standards.

Specifications

Electrical

Frequency Range: 9 kHz – 30 MHz

Polarization: Linear, Vertical

Impedance: 50Ω, Nominal

Dynamic Range: 85dB @ 10kHz

125dB @ 1MHz

Sensitivity: 50dB (μV/m) @ 10kHz

-1dB (μA/m) @ 10kHz

10dB (μV/m) @ 1MHz

-41dB (μA/m) @ 1MHz

(At 200Hz Bandwidth and average detector function on receiver)

1dB Compression Point: 5V/m, 13mA/m

Power Source: 15V supplied by EM-6106

Connector: Type N Male (EM-6877 | 9kHz – 30MHz)

Mechanical

Loop Diameter: 432 mm (17").

Base Dimensions: Height: 102 mm (4").

Width: 232 mm (9.1").

Depth: 181 mm (7.1").

Height (Overall, Base + Loop): 552 mm (21.8").

Weight: 1 kg (2.2 lbs).

Mounting Options Available:

1/4-20 threaded receptacle (included)

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

