

EM-6876 | Antenna, Active Loop



Features

- **Wide frequency coverage**
- **High sensitivity**
- **High dynamic range**
- **Battery operation**
- **Compatible with many measurement instruments**
- **Individually calibrated with certificate of conformance**

Description

The Electro-Metrics EM-6876 Active Loop Antenna is used with EMI Receivers and Spectrum Analyzers with 50 ohm input and covers the frequency range of 9 kHz to 30 MHz.

The EM-6876's internal active circuitry, which is battery powered, equalizes the frequency response of the loop antenna so that the EM-6876 has a relatively constant antenna factor across the 9 kHz to 30 MHz range.

Applications

The EM-6876 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

Dynamic Range: 85 dB at 10 kHz
125 dB at 1 MHz

Sensitivity: 50 dB ($\mu\text{V/m}$) at 10 kHz
-1dB ($\mu\text{A/m}$) at 10 kHz
10 dB ($\mu\text{V/m}$) at 1 MHz
-41dB ($\mu\text{A/m}$) at 1 MHz
(at 200 Hz Bandwidth and average detector function on receiver)

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

Impedance: 50 Ohms, nominal

Connector: Type BNC

Mechanical

Loop Diameter: 432 mm (17")

Base Dimensions:

Height: 102 mm (4")

Width: 232 mm (9.1")

Depth: 181 mm (7.1")

Overall Height: 552 mm (21.8")

Weight: 3.3 kg (7.25 lbs.)

Ref: 100501

Specifications subject to change without notice.
Unless otherwise specified, product is manufactured in
Johnstown, NY USA.

