

EM-6869 | Antenna, Active Loop



Features

- **Wide frequency coverage**
- **High sensitivity**
- **High dynamic range**
- **Compatible with any 50 ohm measurement instrument**

Description

The Electro-Metrics EM-6869 Active Loop Antenna is used with any receiver or spectrum analyzer with 50 ohm input and covers the frequency range of 9 kHz to 50 MHz.

The internal active circuitry equalizes the frequency response of the EM-6869 loop antenna yielding a relatively constant antenna factor across the 9 kHz to 50 MHz range.

Ref: 100501

Specifications

Electrical

Frequency Range: 9 kHz - 50 MHz

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

Sensitivity: 50 dB ($\mu\text{V}/\text{m}$) at 10 kHz
-1dB ($\mu\text{A}/\text{m}$) at 10 kHz
10 dB ($\mu\text{V}/\text{m}$) at 1 MHz
-41dB ($\mu\text{A}/\text{m}$) 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 SMA (Jack)

External Power Source: 12 V.D.C.
(Required)

Mechanical

Length: 33.3 cm (13 1/8")

Width: 42.39 cm (16 11/16")

Diameter: 30.5 cm x 40.6 cm (12" x 16")

Depth: .29 cm (3/4")

Weight: 0.70 kg (1.55 lb.)

Optional external battery pack available.

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

