

## 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 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, ensuring 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

<b>Frequency Range:</b>	9 kHz – 30 MHz
<b>Dynamic Range:</b>	85 dB @ 10 kHz 125 dB @ 1 MHz
<b>Sensitivity:</b>	50 dB ( $\mu\text{V}/\text{m}$ ) @ 10 kHz -1 dB ( $\mu\text{A}/\text{m}$ ) @ 10 kHz 10 dB ( $\mu\text{V}/\text{m}$ ) @ 1 MHz -41 dB ( $\mu\text{A}/\text{m}$ ) @ 1 MHz (At 200 Hz Bandwidth and average detector function on receiver)
<b>1dB Compression point:</b>	5V/m, 13mA/m
<b>Impedance:</b>	50 Ohms, nominal
<b>Signal Injection Connector:</b>	Type BNC

### Mechanical

<b>Base Dimensions:</b>	<b>Width:</b> 232 mm (9.1") <b>Height:</b> 102 mm (4") <b>Depth:</b> 181 mm (7.1")
<b>Loop Diameter:</b>	432 mm (17")
<b>Overall Height:</b>	552 mm (21.8")
<b>Weight:</b>	3.3 kg (7.25 lbs.)

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

