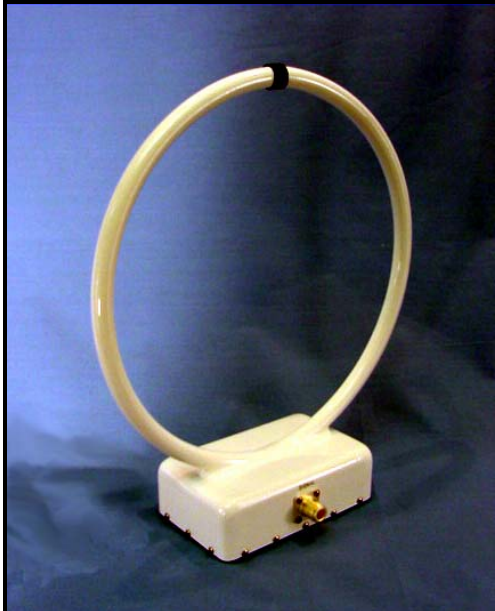


EM-6874 | Antenna, Loop



Description

The EM-6874 Loop antenna is nominally used 20 Hz to 30 MHz and is designed for uncalibrated substitution measurements of shielding effectiveness as described by MIL-STD-285, IEEE STD 299, and NSA-65-6.

The antenna has a radiating element consisting of a single turn loop 0.3 meter in diameter, making the antenna capable of operating at very high loop currents without damage. In addition, a Type N connector is used which also permits high input levels to be applied to the antenna.

Although uncalibrated, the field strength generated is approximately 2.7 mA/meter/ Ampere. The antenna impedance may be approximated by series combination of a 600 nH and a resistance less than 1 ohm. Its signal handling capability is on the order of 1 kV peak and 40 Amperes RMS.

Specifications

Electrical

Frequency Range

(nominal): 20 Hz – 30 MHz, uncalibrated

Impedance: Approximated by 600 nH in series with <1 ohm

Connector: Type N

Mechanical

Loop Diameter: 321 mm (12.7")

Base Dimensions:

Length: 102 mm (4")

Width: 76 mm (3")

Height: 38 mm (1.5")

Weight: 230 g (0.5 lbs.)

CAUTION

Since this antenna does not provide a 50 ohm load to the instrument driving it, some amplifiers or generators may be damaged if they are not capable of driving a 600 nH load.

Ref: 100501

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

