

EM-6874 | Antenna, Loop



Description

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

The antenna has a radiating element consisting of a single turn loop 0.3 meters 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 a 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: Calibrated	20 Hz – 30 MHz
Impedance:	Approximated by 600 nH in series with <1 ohm
Connector:	Type N

Mechanical

Base Dimensions:	Length: 102 mm (4") Width: 76 mm (3") Height: 38 mm (1.5") Weight: 230 g (0.5 lbs.)
Loop Diameter:	321 mm (12.7")

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.

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

