

6507 ACTIVE SHIELDED LOOP

The Model 6507 is an active receiving loop antenna, for EMC testing applications.



The preamplifier helps this loop antenna produce good sensitivity and almost constant antenna factors, when testing for EMC applications. The saturation indicator is activated when an incoming signal exceeds the 5 V/m saturation limit of the internal preamplifier. Power for the preamplifier is supplied by rechargeable sealed batteries. Front panel controls and indicators for the preamplifier include a power switch, power-on indicator, saturation indicator, and a receptacle for a battery charger. A switch selectable battery charger for 115 VAC or 230 VAC 50/60 Hz operation is included.

Every loop antenna is individually calibrated in accordance with ANSI C63.5, using NIST traceable equipment. By knowing the actual antenna factors and performance characteristics of an antenna instead of typical data, you can more accurately measure field strength in your tests.

Key Features

- Frequency Range: 1 kHz - 30 MHz.
- Two Year Warranty
- Individually Calibrated per ANSI C63.5
- Saturation Indicator

Specifications

Electrical Specifications

Frequency Minimum 1 kHz
Frequency Maximum 30 MHz
1 dB Comp. Point 10 V/m
Connectors BNC (f)
Dynamic Range 116 dB @ 1 MHz
76 dB @ 10 kHz
Impedance (Nominal) 50 Ω
Pattern Type omnidirectional
Polarization linear
Power Required 115/230VAC 50/60Hz
(Switch selectable battery charger)
Sensitivity (Typical) 11 dB(μ A/m) @ 10 kHz
-29 dB(μ A/m) @ 1 MHz

Physical Specifications

Height 37.8 cm (14.88 inches)

Length 12 cm (4.72 inches)

Weight 1.8 kg (3.97 lb)

Width 19 cm (7.48 inches)

Other Specifications

- Mounting Bracket drilled accepts an ETS-Lindgren or other tripod mount with standard 1/4 in x 20 threads.
 - Antenna/loop assembly
 - Battery Charger
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