



6507 ACTIVE SHIELDED LOOP



Frequency Range: 1 kHz - 30 MHz. The Model 6507 is an active receiving loop antenna. A preamplifier is built into the base and provides a 50-ohm output.

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Description	Config	Specs	Charts	All Info
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Key Features

- Two Year Warranty
- Individually Calibrated
- Saturation Indicator
- Remote Monitor Option

Description

The preamplifier helps this loop antenna produce good sensitivity and almost constant antenna factors. 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 the IEEE-291 Section 2.3.1 methods, 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.

Standard Configuration

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

Options

- Remote Monitor. 10 meter (32.8 ft) fiber optic Remote Monitor Option for remote display of power-on.
- Custom cases are available on request.
- Individually calibrated per IEEE STD 291. Actual individual calibration factors and signed Certificate of Calibration Conformance included in Manual.

Electrical Specifications

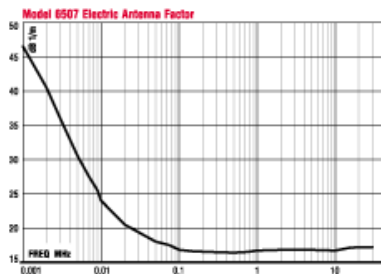
Frequency Minimum	1 kHz
Frequency Maximum	30 MHz
1 dB Comp. Point	10 V/m
Connectors	BNC (f)
Dynamic Range	116 dB @ 1 MHz 76 dB @ 10 kHz
Impedance (Nominal)	50 Ω
Pattern Type	omnidirectional
Polarization	linear
Power Required	13.8 VDC
Sensitivity (Typical)	11 dB(μA/m) @ 10 kHz -29 dB(μA/m) @ 1 MHz

Physical Specifications

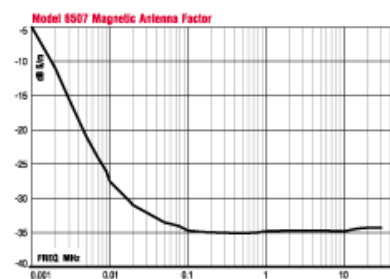
Length	12 cm (4.72 inches)
Weight	1.8 kg (3.97 lb)
Width	19 cm (7.48 inches)

Technical Charts

6507 Electric Antenna Factor



6507 Magnetic Antenna Factor



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