



## 6507 ACTIVE SHIELDED LOOP All Info



**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.  
**Available for Antennas-2-Go in September 2012.**

---

### Key Features

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

---

### Description

ETS-Lindgren's Model 6502 is an active receiving loop antenna with a frequency range of 9 kHz to 30 MHz. This antenna is specifically designed to perform commercial emissions standards testing, such as CISPR 16-1-4. The Model 6502 can also be used for any magnetic testing, particularly MIL-STD-461B.

A radio frequency preamplifier is built into the base of this loop antenna and provides a 50Ω output, which is used by a receiver. This preamplifier helps the Model 6502 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 operations is included.

Each 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

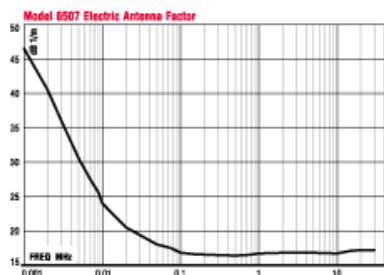
Impedance (Nominal)	50 $\Omega$
Pattern Type	omnidirectional
Polarization	linear
Power Required	13.8 VDC
Sensitivity (Typical)	11 dB( $\mu$ A/m) @ 10 kHz -29 dB( $\mu$ A/m) @ 1 MHz

### Physical Specifications

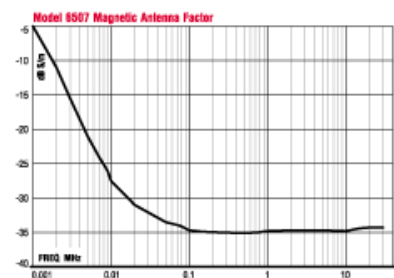
Diameter	30.4 cm (11.97 inches)
Height	37.8 cm (14.88 inches)
Length	12 cm (4.72 inches)
Weight	1.8 kg (3.97 lb)
Width	19 cm (7.48 inches)

### Technical Charts

6507 Active Shielded Loop Electric Antenna Factor



6507 Active Shielded Loop Magnetic Antenna Factor



USA	FINLAND	UK	FRANCE	CHINA	JAPAN	ONLINE
Tel +1.512.531.6400	Tel +358.2.8383.300	Tel +44(0) 1438.730700	Tel +33.1.48.65.34.03	Tel +8610.8275.5086	Tel+ 81.3.3813.7100	info@ets- lindgren.com
Fax +1.512.531.6500	Fax +358.2.8651.233	Fax +44(0) 1438.730751	Fax +33.1.48.65.43.69	Fax +8610.8275.5537	Fax +81.3.3813.8068	www.ets- lindgren.com

Information presented is subject to change as product enhancements are made. Contact ETS-Lindgren Sales Department for current specification.