

ANTENNA MODEL 6502



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. 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.

Technical Specifications

Electrical

Frequency Minimum	9 kHz
Frequency Maximum	30 MHz
Impedance (Nominal)	50
1 dB Comp. Point	5 V/m
Connectors	BNC (f)
Dynamic Range	125 dB @ 1 MHz, 85 dB @ 10 kHz
Pattern Type	Omnidirectional
Polarization	Linear
Power Required	110/230VAC 50/60Hz (Switch Selectable Battery Charger)
Sensitivity (Typical)	1 dB (uA/m) @ 10 kHz, -42 dB (uA/m) @ 1 MHz

Physical

Length	12 cm (4.72 in)
Height	67.3 cm (26.50 in)
Width	19 cm (7.48 in)
Weight	2 kg (4.41 lb)

MODEL 6502

- Frequency Range: 9 kHz - 30 MHz
- Two Year Warranty
- Individually Calibrated per ANSI C63.5
- Saturation Indicator