

EMC Antennas
**Broadband
Mini-Bicon Antenna**

Model 3184

FEATURES:

- **1 GHz - 18 GHz Frequency Range**
- **Omnidirectional Radiation Pattern**
- **Ideal for:**
 - **Broadband Spectrum Monitoring**
 - **Harmonics Level Measurement IEC 61000-4-3**
- **Weatherizing Kit**



ETS-Lindgren's Model 3184 Mini-Bicon Antenna

**THE ETS-LINDGREN MODEL 3184
BROADBAND MINI-BICON ANTENNA**

is a radome-protected, broadband antenna with a frequency range of 1 GHz - 18 GHz. Its omnidirectional pattern and broadband frequency range make it ideal for surveying or spectrum monitoring, when used with a portable spectrum analyzer.

A weatherizing kit is standard on the Model 3184 for prolonged outdoor monitoring.

FEATURES

Frequency Range

The Model 3184 is designed to have the lowest possible VSWR across its range of operation. The antenna exhibits an average 2:1 VSWR.

Radiation Pattern

The radiation pattern of the Model 3184 is omnidirectional in the H-plane. This means the antenna can receive signals from every direction around its axis.

Spectrum Monitoring

The Model 3184 can be used for EM Field surveying and spectrum monitoring. The low weight design allows use as a field surveying tool, in conjunction with a portable spectrum analyzer.

IEC-61000-4-3

Because of its small size, the antenna can also be used for amplifier harmonic measurements per the IEC 61000-4-3 Radiated Immunity Test.

STANDARD CONFIGURATION

- Antenna
- Antenna Mount for Tripod
- Manual
- Individually Calibrated at 1 m per SAE ARP 958 at our A2LA accredited lab. Actual Antenna Factors and a Signed Certificate of Calibration Conformance Included with Manual
- Weatherizing Kit

OPTIONAL CONFIGURATION

- ETS-Lindgren offers several non-metallic, non-reflective tripods

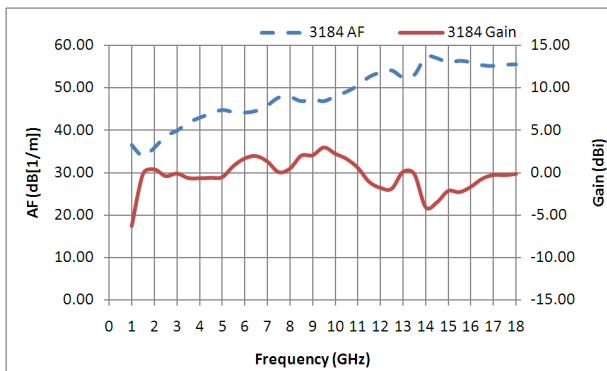
Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3184	1 GHz - 18 GHz	2:1	50 watts @ 1 GHz 25 watts @ 18 GHz	50 Ω	SMA (F)

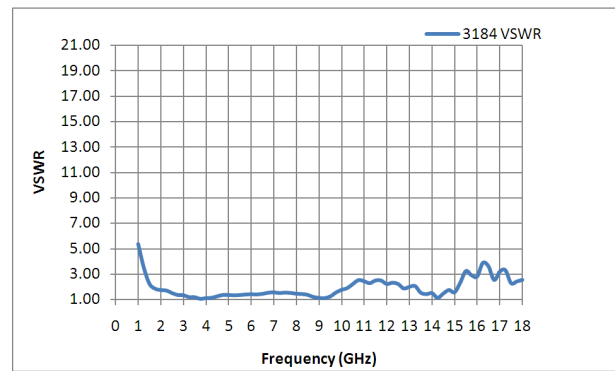
Physical Specifications

MODEL	LENGTH	WIDTH	STINGER LENGTH	WEIGHT
3184	36.2 cm 14.25 in	15.25 cm 6.0 in	17.8 cm 7.0 in	.7 kg 1.5 lbs

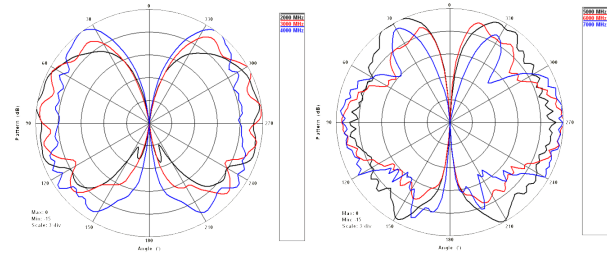
Gain/Antenna Factor Typical Performance



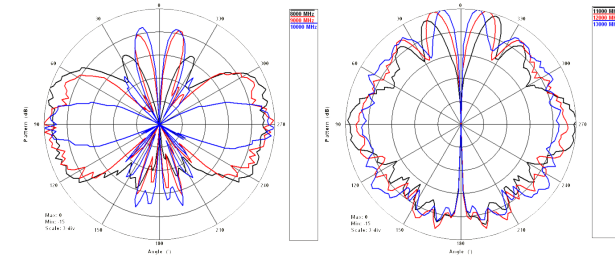
VSWR Typical Performance



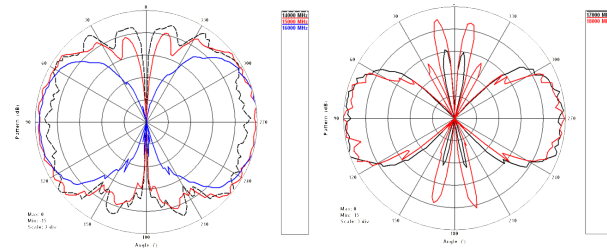
Model 3184 Typical Elevation Pattern 2 GHz - 7 GHz



Model 3184 Typical Elevation Pattern 8 GHz - 13 GHz



Model 3184 Typical Elevation Pattern 14 GHz - 18 GHz



Model 3184 Typical Azimuth Pattern 2 GHz - 18 GHz

