

EMC Antennas
Broadband
Mini-Bicon Antenna

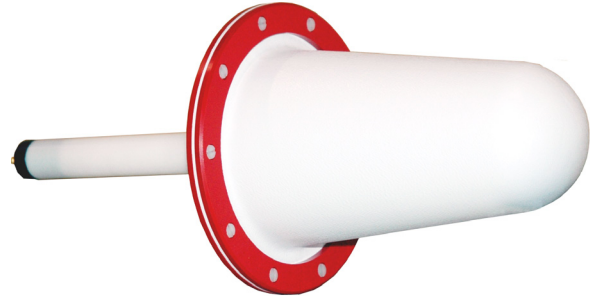
Model 3181

FEATURES:

- **500 MHz - 9 GHz (18 GHz) Frequency Range**

- **Omnidirectional Pattern**

- **Ideal for:**
 - **Broadband Spectrum Monitoring**
 - **Harmonic Monitoring**
 - **Chamber Characterization**



ETS-Lindgren's Model 3181 Mini-Bicon Antenna

**THE ETS-LINDGREN MODEL 3181
BROADBAND MINI-BICON ANTENNA**

is a broadband omnidirectional antenna that covers most wireless bands. This antenna has a 500 MHz to 9 GHz frequency range, but can be used up to 18 GHz for surveying or spectrum monitoring when used with a portable spectrum analyzer.

FEATURES

Frequency Range

The Model 3181 is designed to have the lowest possible VSWR across its range of operation. The antenna exhibits better than 2:1 VSWR for most of its range, and never exceeds 4:1 above 1 GHz.

Radiation Pattern

The radiation pattern of the Model 3181 is omnidirectional in the H-plane. This means the antenna can receive signals from every direction around its axis.

Spectrum Monitoring

The Model 3181 can be used for EM Field surveying and spectrum monitoring. Its low weight design allows for use as a surveying tool, when connected to a portable spectrum analyzer.

STANDARD CONFIGURATION

- Antenna
- Manual
- Individually calibrated at 1 m per SAE ARP 958 at our A2LA accredited lab. 3 m calibration per ANSI C63.5 available at additional cost. Actual antenna factors and a signed Certificate of Calibration Conformance included with manual.
- Weatherizing

OPTIONAL CONFIGURATION

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

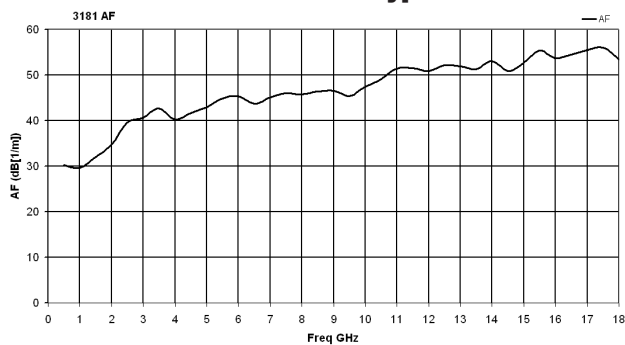
Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3181	500 MHz - 9 GHz (18 GHz)	2:1	200 watts @ 500 MHz 25 watts @ 18 GHz	50 Ω	SMA (F)

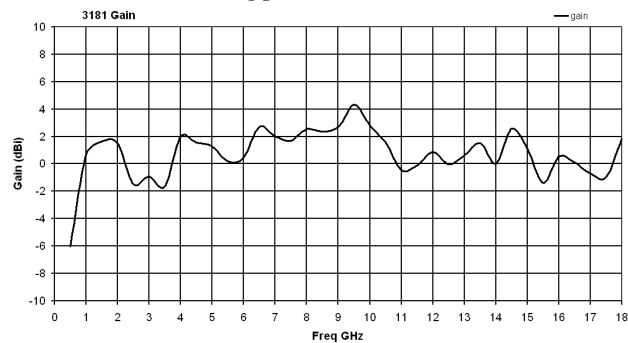
Physical Specifications

MODEL	LENGTH	WIDTH	STINGER LENGTH	WEIGHT
3181	36.2 cm 14.25 in	15.25 cm 6.0 in	17.8 cm 7.0 in	1.2 kg 2.68 lbs

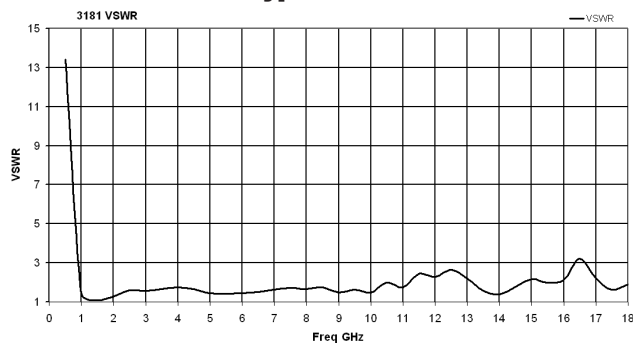
Model 3181 Antenna Factor Typical Performance



Model 3181 Gain Typical Performance



Model 3181 VSWR Typical Performance



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