

BROADBAND MIN-BICON ANTENNAS 3181 Broadband Mini-Bicon Antenna

ETS-Lindgren's Model 3181 Broadband Mini-Bicon Antenna is a broadband omnidirectional antenna with a radiation pattern that conforms to the CISPR-16 specifications.



ETS-Lindgren's Model 3181 Broadband Mini-Bicon Antenna is a broadband omnidirectional antenna with a radiation pattern that conforms to the CISPR-16 specifications. The 3181's frequency range covers most wireless bands worldwide, it can also be used for surveying or spectrum monitoring when used with a portable spectrum analyzer.

Key Features

- **500 MHz to 18 GHz Frequency Range**
(The antenna is recommended for the 500 MHz to 9 GHz range but data is supplied up to 18 GHz where it can be used for spectrum monitoring.)
- **Ideal for:**
 - Chamber Characterization
 - Broadband Spectrum Monitoring
- **Omnidirectional Pattern Conforms with CISPR-16**

Features

Low VSWR

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. Optional weatherproofing is available for long term monitoring outdoors.

Specifications

Electrical Specifications

Frequency Minimum: 500 MHz

Frequency Maximum: 18 GHz

Connectors: SMA (F)

Impedance (Nominal): 50 Ω

Maximum Continuous Power:

- 200 watts @ 500 MHz
- 25 watts @ 18 GHz

VSWR Ratio (Average): <2:1

Pattern Type: Omnidirectional

Polarization: Linear

Physical Specifications

Length: 36.2 cm (14.25 in)

Width: 15.25 cm (6.00 in)

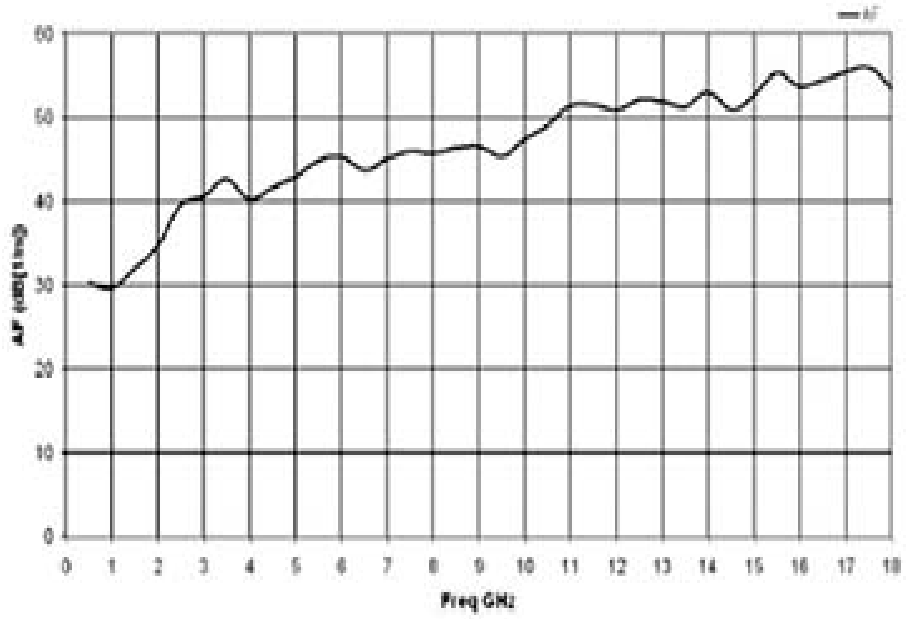
Stinger Length: 17.8 cm (7.01 in)

Other Specifications

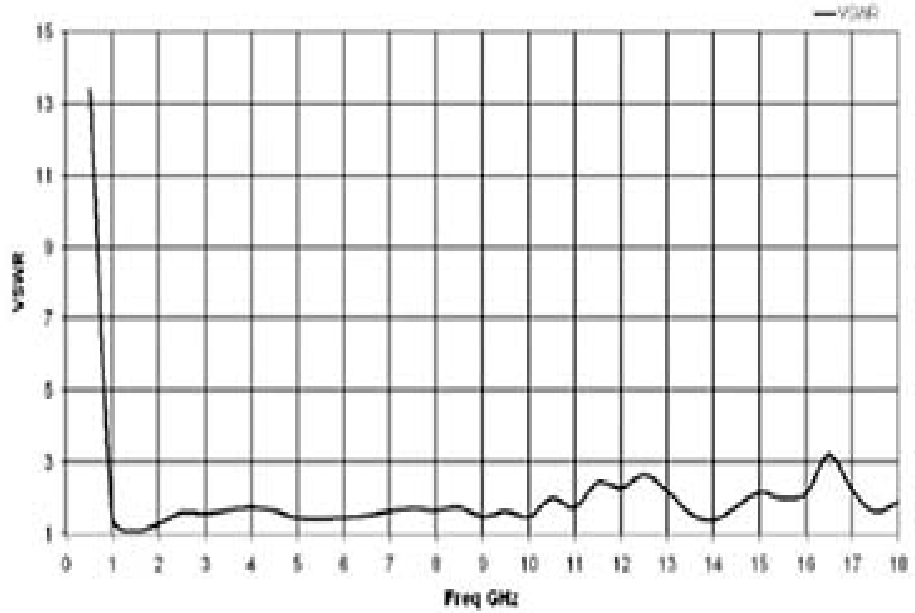
- Model 3181 Antenna
- Weather-proofing
- Mounting Adapter for Tripod Mounting
- Individually calibrated at 1 m per SAE ARP 958 at our A2LA accredited lab. 3 m calibration per ANSI C63.5 available at additional cost. Actual antenna factors and a signed Certificate of Calibration Conformance included with manual.
- Manual

Product Charts

Model 3181
Broadband Mini-Bicon Antenna
Antenna Factor



Model 3181
Broadband Mini-Bicon Antenna
VSWR



Model 3181
Broadband Mini-Bicon Antenna
Gain

