FEATURES:

- **500 MHz - 9 GHz (18 GHz) Frequency Range**
- **Omnidirectional Pattern**
- **Ideal for:**
  - Broadband Spectrum Monitoring
  - Harmonic Monitoring
  - Chamber Characterization

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
Broadband Mini-Bicon Antenna
Model 3181

Electrical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE</th>
<th>VSWR RATIO (AVG)</th>
<th>MAXIMUM CONTINUOUS POWER</th>
<th>IMPEDANCE (NOMINAL)</th>
<th>CONNECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3181</td>
<td>500 MHz - 9 GHz (18 GHz)</td>
<td>2:1</td>
<td>200 watts @ 500 MHz 25 watts @ 18 GHz</td>
<td>50 Ω</td>
<td>SMA (F)</td>
</tr>
</tbody>
</table>

Physical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LENGTH</th>
<th>WIDTH</th>
<th>STINGER LENGTH</th>
<th>WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>3181</td>
<td>36.2 cm 14.25 in</td>
<td>15.25 cm 6.0 in</td>
<td>17.8 cm 7.0 in</td>
<td>1.2 kg 2.68 lbs</td>
</tr>
</tbody>
</table>

Model 3181 Antenna Factor Typical Performance

Model 3181 Gain Typical Performance

Model 3181 VSWR Typical Performance