THE ETS-LINDGREN MODEL 3183 BROADBAND MINI-BICON ANTENNA was designed for CISPR 16 chamber characterization. The antenna has a broadband frequency range of 1 GHz - 18 GHz. Its omnidirectional pattern conforms to CISPR 16 specifications.

FEATURES

Frequency Range
The Model 3183 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 3183 is omnidirectional in the H-plane. This means the antenna can receive signals from every direction around its axis.

CISPR 16 Conformance
The radiation pattern closely conforms to the CISPR 16 requirements for chamber validation. Because of its small size, the antenna can also be used for amplifier harmonic measurements when performing tests per the IEC 61000-4-3.

Spectrum Monitoring
The Model 3183 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.

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

OPTIONAL CONFIGURATION

- ETS-Lindgren offers several non-metallic, non-reflective tripods
EMC Antennas
Broadband Mini-Bicon Antenna
Model 3183

Electrical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE</th>
<th>VSWR (AVG)</th>
<th>MAXIMUM CONTINUOUS POWER</th>
<th>IMPEDANCE (NOMINAL)</th>
<th>CONNECTORS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3183</td>
<td>1 GHz - 18 GHz</td>
<td>2.1</td>
<td>50 watts @ 1 GHz</td>
<td>50 Ω</td>
<td>SMA (F)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>25 watts @ 18 GHz</td>
<td></td>
<td></td>
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</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>3183</td>
<td>36.2 cm</td>
<td>7.0 cm</td>
<td>17.8 cm</td>
<td>0.5 kg</td>
</tr>
<tr>
<td></td>
<td>14.25 in</td>
<td>2.76 in</td>
<td>7.0 in</td>
<td>1.1 lbs</td>
</tr>
</tbody>
</table>

Gain/Antenna Factor Typical Performance

VSWR Typical Performance

Model 3183 Typical Elevation Pattern
2 GHz - 7 GHz

Model 3183 Typical Elevation Pattern
8 GHz - 13 GHz

Model 3183 Typical Elevation Pattern
14 GHz - 18 GHz

Model 3183 Typical Azimuth Pattern
2 GHz - 18 GHz