ETS-LINDGREN'S MODEL 3186 is a dual stacked log periodic dipole array antenna (LPDA), each of the two separate LPDAs comprising the dual array are 100 Ω antennas. When assembled in parallel, the results are a 50 Ω input impedance array. This array provides increased gain when compared to a single LPDA. The arrangement of the two LPDA in the arrays provides a very constant pattern across the entire frequency range.

This antenna is ideal as a receive antenna for CISPR emissions testing above 1 GHz. It is also ideal when performing the site VSWR test as per CISPR 16.

FEATURES:
- 1 GHz — 18 GHz Frequency Range
- 2:1 VSWR Average
- Up to 20W Input Power
- Constant E- and H-Plane Beamwidth
- Flat Directivity

This antenna can be used with ETS-Lindgren’s Model 3183 for performing the site VSWR chamber validation method per CISPR 16.

Low VSWR
The typical VSWR for the model 3186 is less than 2:1.

Low Input Power
This antenna is mainly a receive antenna, with a maximum input power of 20W continuous wave and a peak power of 30W.

Constant Beamwidth and Flat Directivity
The model 3186 was designed to provide a very constant illumination from 1 GHz to 18 GHz. The Beamwidth in the two principal planes is 59.8 degrees for the E-plane (the polarization plane) and 57.0 degrees for the H-plane (the orthogonal plane) while the directivity is about 10 dB across the entire frequency range.

STANDARD CONFIGURATION
- Antenna
- Mounting Fixture for ¼ 20 Thread
- Individually calibrated factors at 3m per SAE ARP 958
- Manual

OPTIONS
- 4-TR Tripod
- 7-TR Tripod
Electrical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>FREQUENCY RANGE</th>
<th>MAXIMUM CONTINUOUS POWER</th>
<th>IMPEDANCE (NOMINAL)</th>
<th>VSWR (AVG)</th>
<th>CONNECTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>3186</td>
<td>1 GHz – 18 GHz</td>
<td>20W</td>
<td>50 Ω</td>
<td>2:1</td>
<td>SMA (Female)</td>
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</table>

Physical Specifications

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>LENGTH*</th>
<th>HEIGHT</th>
<th>WEIGHT</th>
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</thead>
<tbody>
<tr>
<td>3186</td>
<td>19.7 cm</td>
<td>44.1 cm</td>
<td>19.7 cm</td>
<td>.7 kg</td>
</tr>
<tr>
<td></td>
<td>7.8 in</td>
<td>17.4 in</td>
<td>7.8 in</td>
<td>1.5 lb</td>
</tr>
</tbody>
</table>

*Includes a 13.9 cm (5.5 in) Stinger Antenna Mount