LOG PERIODIC DIPOLE ARRAY  3186 Dual Stacked LPDA Antenna

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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.

**Key Features**

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

**Features**

**Frequency Range**

The antenna covers a frequency range of 1 GHz to 18 GHz, making it ideal as a receive antenna for CISPR 16 based testing above 1 GHz. 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.
Specifications

Electrical Specifications

- **Frequency Minimum**: 1 GHz
- **Maximum Continuous Power**: 20 W
- **Impedance (Nominal)**: 50 Ω
- **VSWR (Average)**: 2:1
- **Connector**: SMA (Female)
- **Pattern Type**: Directional
- **Polarization**: Linear

Physical Specifications

- **Width**: 19.7 cm (7.76 in)
- **Length**: 44.1 cm (17.36 in)
- **Height**: 19.7 cm (7.76 in)
- **Weight**: .7 kg (1.54 lb)

Other Specifications

- Antenna
- Mounting Fixture for 1/4 in x 20 Threads
- Individually Calibrated Factors at 3m per SAE ARP 958
- Manual
Product Charts

3186 Dual Stacked LPDA Antenna
Computed Typical Beamwidth

3186 Dual Stacked LPDA Antenna
Computed Typical Directivity