# 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

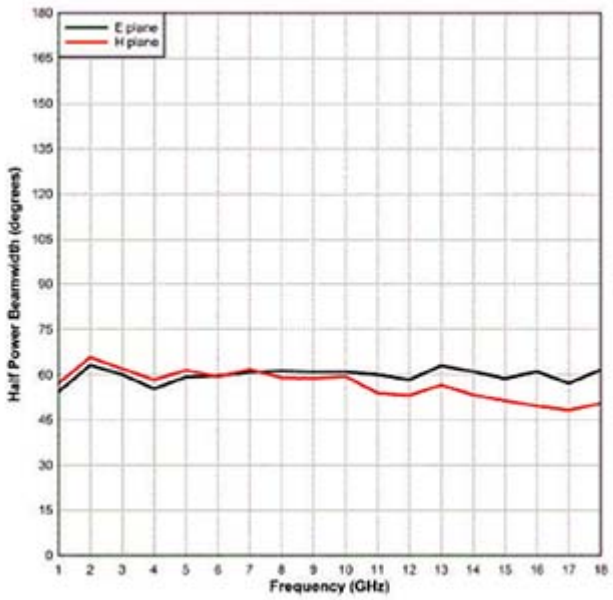
**Width:** 19.7 cm (7.76 in)
**Length:** 44.1 cm (17.36 in)
**Height:** 19.7 cm (7.76 in)
**Weight:** .7 kg (1.54 lb)

## 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**