ETS·LINDGREN
An ESCO Technologies Company

EMC Antennas

Dual Stacked LPDA

Model 3150B

Features:

- 80 MHz to 1 GHz Frequency Range
- Avg. 2:1 VSWR Across Range
- Up to 5 kW Max. Input Power
- Suitable for Immunity Testing
- Individually Calibrated

ETS-Lindgren's Model 3150B Dual Stacked LPDA Antenna

THE MODEL 3150B DUAL STACKED LPDA is dual stacked log periodic dipole array antenna (LPDA), with each of the two separate LPDAs being 100 Ω antennas. When assembled in parallel, the results is a 50 Ω input impedance array. This array provides increased gain when compared to a single LPDA.

Low VSWR provides an excellent match with the amplifier, resulting in a high field generated related to input power. This antenna is suitable for situations where high fields need to be generated, such as military and in automotive EMC applications.

FEATURES

Frequency Range

The Model 3150B covers from 80 MHz to 1 GHz frequency range. The antenna can generate 200 V/m with less than 1 kW of input power at 1 m distance for the 100 MHz to 1 GHz range. When combined with ETS-Lindgren's 3159 or 3158 High Power Biconical Antennas, the 3150B becomes integral part of ETS-Lindgren's high severity level immunity solution.

VSWR Levels

The average VSWR is 2:1 across the frequency range.

Input Power

The Model 3150B comes fitted with a 7/16 coaxial connector, which can handle 3 kW at 1 GHz and up to 5 kW of input power at 80 MHz.

Immunity Testing

The Model 3150B generates high fields as required in automotive EMC applications per standards such as ISO 11541-2 or MIL-STD susceptibility testing. Additionally, this antenna can be used as a receive antenna.

Individually Calibrated

The 3150B is individually calibrated at 3 m per ANSI C63.5 and SAE ARP 958.

STANDARD CONFIGURATION

- Antenna Assembly (Antenna Ships Disassembled)
- Mount for ETS-Lindgren 7-TR Tripod
- Individually calibrated at 3 m per SAE ARP 958 at our A2LA accredited lab.
- Actual antenna factors and a Signed Certificate of Calibration Conformance included in manual.
- Manual

OPTIONS

- For easy horizontal and vertical polarization changes, the 7-TR tripod is recommended. This tripod requires the 3150B Cross Boom. Please specify this cross boom when ordering.

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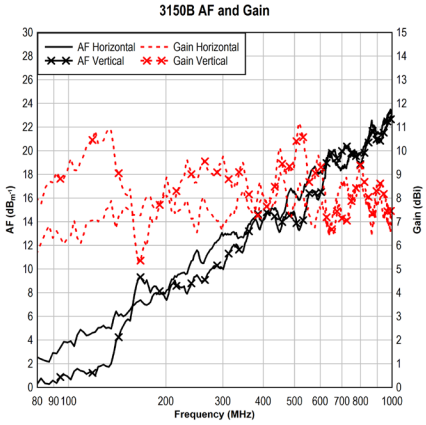
Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	PEAK POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3150B	80 MHz – 1 GHz	2:1	5 kW – 2.5 kW	7 kW – 4 kW	50 Ω	7/16 Female

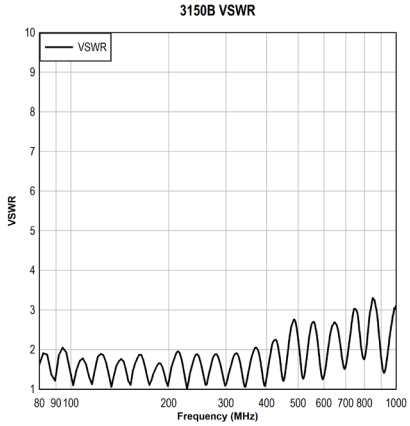
Physical Specifications

MODEL	WIDTH	DEPTH	HEIGHT	WEIGHT
3150B	209.0 cm 82.3 in	150.4 cm 59.2 in	203.2 cm 80.0 in	10.6 kg 23.3 lb

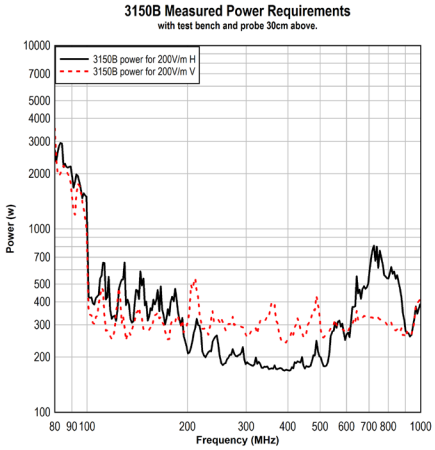
Typical Antenna Factors and Gain



Typical VSWR



Typical Avg. Power Required



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