

ANTENNA MODEL 3150B DUAL STACKED LPDA ANTENNA



MODEL 3150B

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

ETS-Lindgren's Model 3150B Dual Stacked LPDA is a dual stacked log periodic dipole array antenna (LPDA), with each of the two LPDAs being 100 Ω antennas. When assembled in parallel, the result 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.

Frequency Range

The 3150B covers the 80 MHz to 1 GHz frequency range. This 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.

Low VSWR

The Model 3150B's average VSWR is 2:1 across the frequency range. This antenna comes fitted with a 7/16 DIN coaxial connector, which can handle 3 kW at 1 GHz and up to 5 kW of input power at 80 MHz.

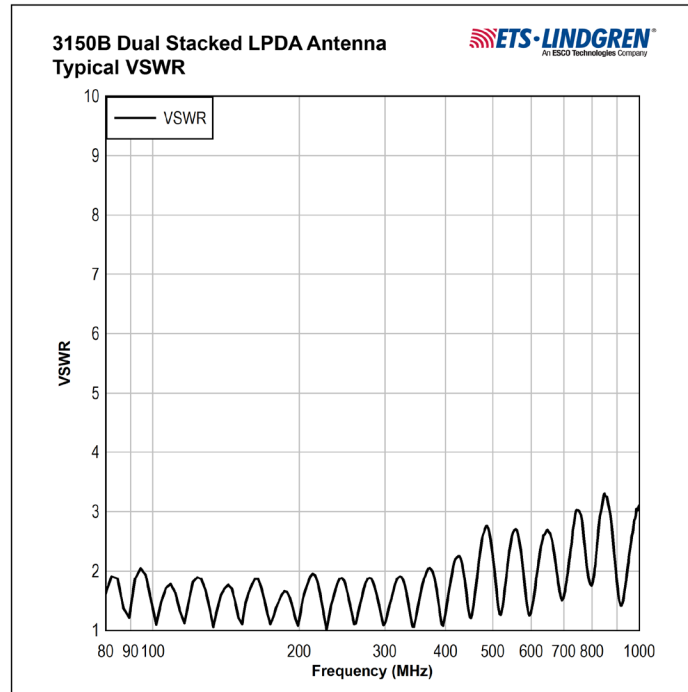
Applications

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.

Technical Specifications

Electrical	
Frequency Minimum	80 MHz
Frequency Maximum	1 GHz
VSWR (Average)	2:1
Impedance (Nominal)	50 Ω
Maximum Continuous Power	5 kW @ 80 MHz, 2.5 kW @ 1 GHz
Peak Power	7 kW at 80 MHz, 4 kW at 1 GHz
Connectors	7/16 DIN Receptacle
Pattern Type	Directional
Polarization	Linear
Physical	
Height	203.2 cm (80.0 in)
Width	209.0 cm (82.3 in)
Depth	150.4 cm (59.2 in)
Weight	10.6 kg (23.4 lb)

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