

ANTENNA MODEL 3148B



MODEL 3148B

- High Gain Meets CISPR Cross Polarization Requirements
- Low VSWR
- Powder Coated Finish
- Individually Calibrated

ETS-Lindgren's Model 3148B Log-Periodic Dipole Array (LPDA) Antenna is specifically designed for making CISPR16-1 measurements which require a 20 dB difference in the cross polarization rejection. This is achieved using an engineering design and manufacturing process that offsets all of the elements in a precision pattern. The excellent cross-polarization property ensures minimum measurement uncertainty for radiated emissions and normalized site attenuation measurement.

The precision construction of the assembly of the boom and elements result in excellent VSWR and optimal phase relationship. The model 3148B log antenna features relatively constant linear gain (measures in far field without any sudden dips or bumps). A Type N connector is provided.

Frequency Range

The frequency range of the model 3148B is 200 MHz to 2 GHz. This makes the 3148B ideal for CISPR 16 testing and other standards based on it, such as CISPR 25.

High Gain

The model 3148Bs design provides a balance between the shortest antenna and the highest possible gain, with a 5 dB average gain over its frequency.

Low VSWR

The choice of spacing between booms and the changing element diameter provide excellent impedance of the antenna. This results in a in low VSWR.

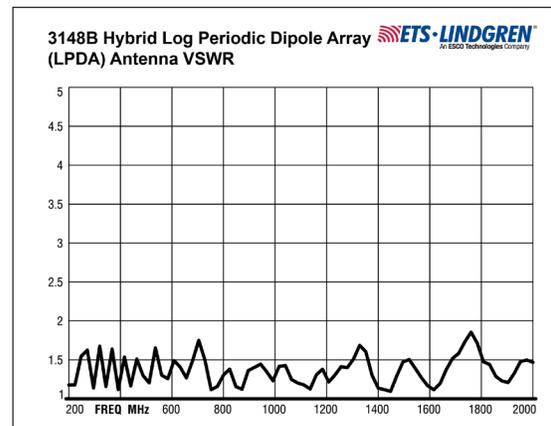
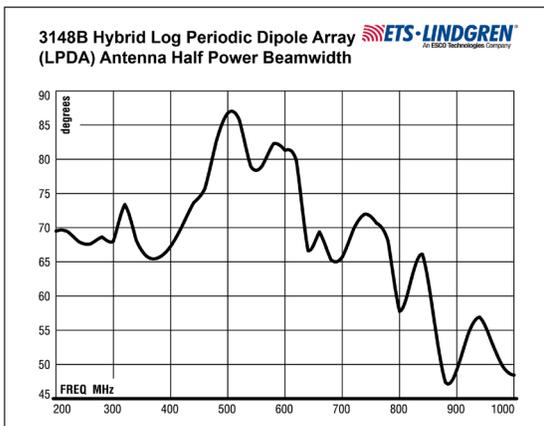
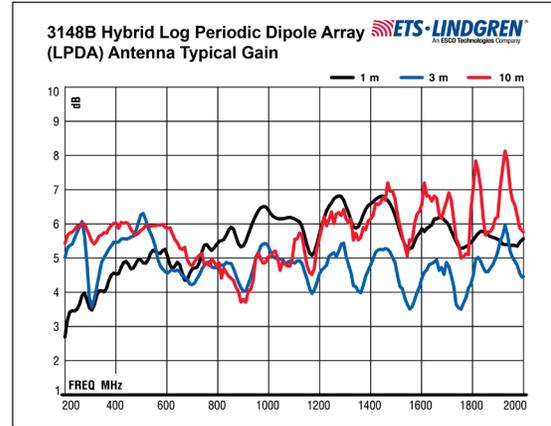
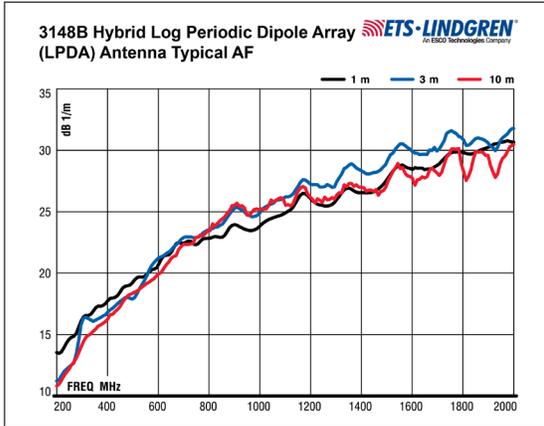
Individually Calibrated

The 3148B broadband antenna is individually calibrated at 1 m per SAE ARP 958 and 10 m per ANSI C63.5. This antenna also comes with a signed Certificate of Calibration Conformance.

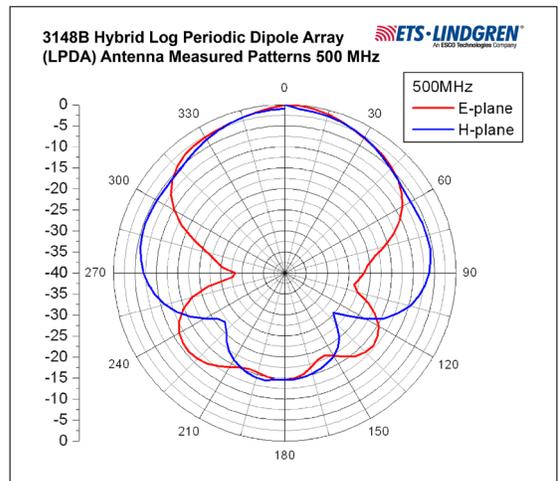
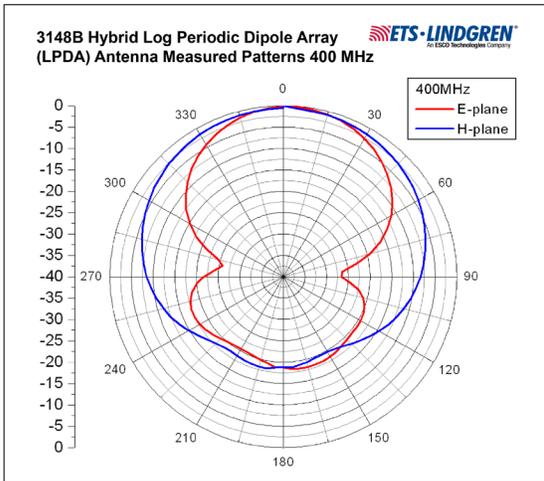
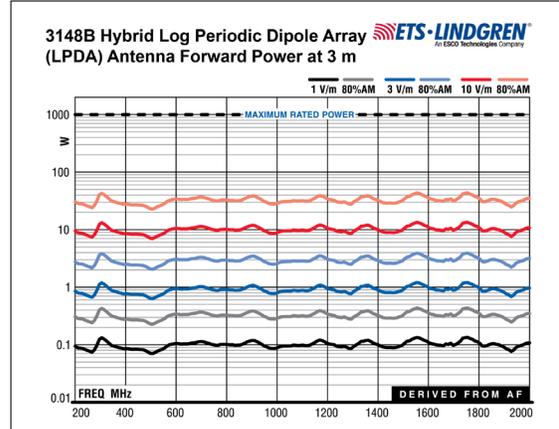
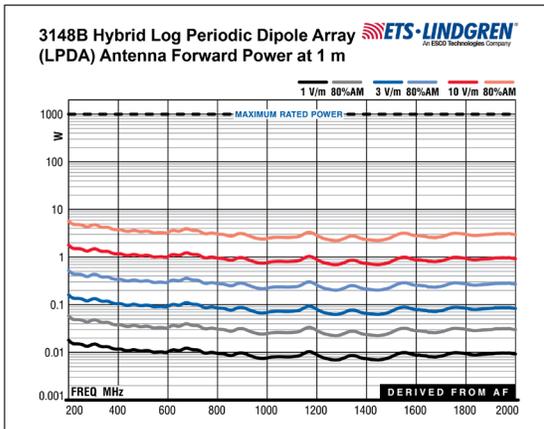
Technical Specifications

Electrical	
Frequency Minimum	200 MHz
Frequency Maximum	2 GHz
VSWR	1.2:1
Impedance (Nominal)	50
Maximum Continuous Power	1 kW
Peak Power	1.3 kW
Connectors	Type N (f)
Pattern Type	Directional
Polarization	Linear
Physical	
Height	11.6 cm (4.57 in)
Width	85.6 cm (33.70 in)
Depth	86.7 cm (34.13 in)
Weight	2 kg (4.41 lb)

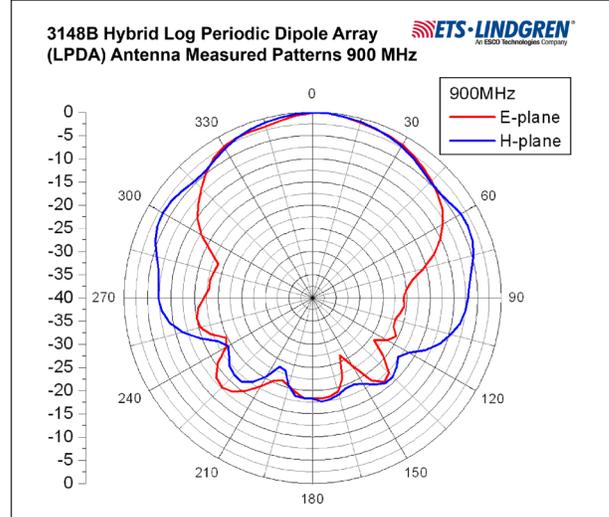
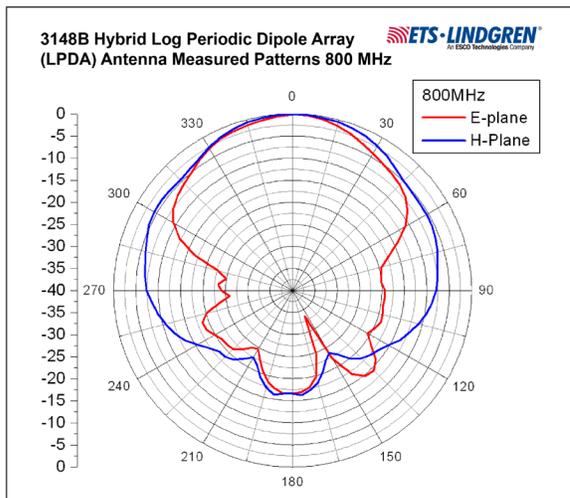
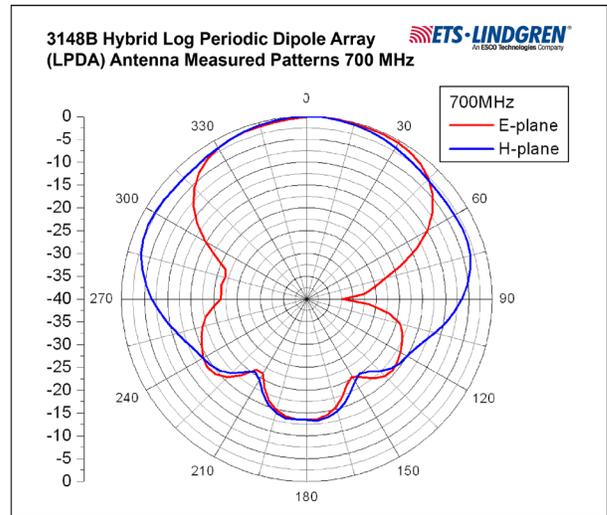
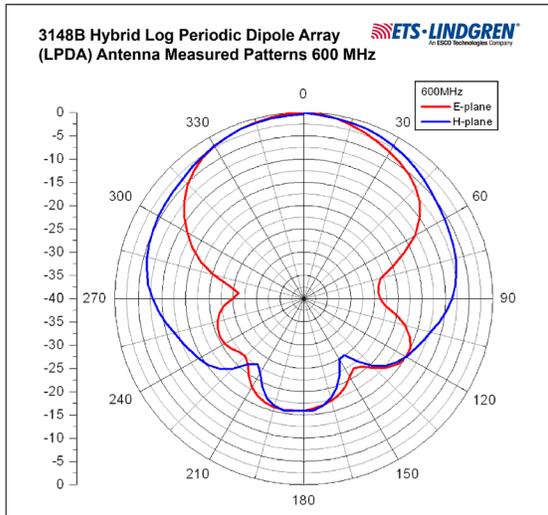
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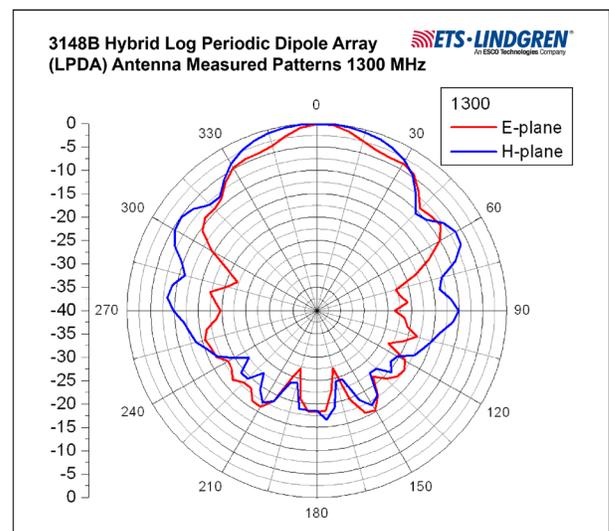
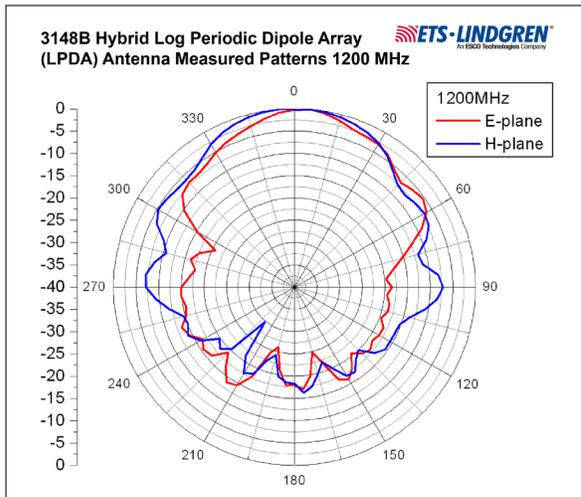
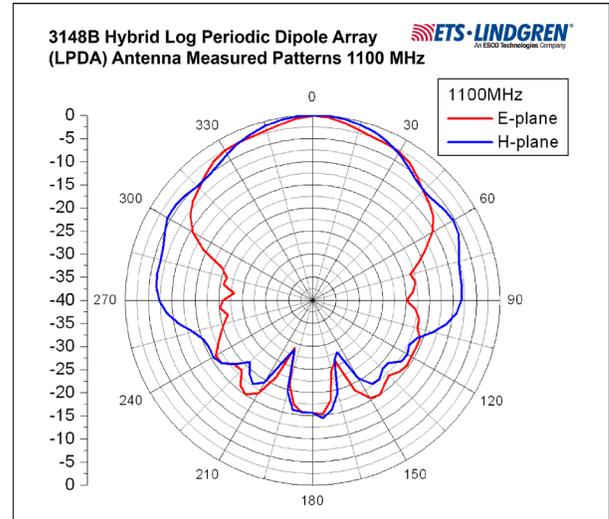
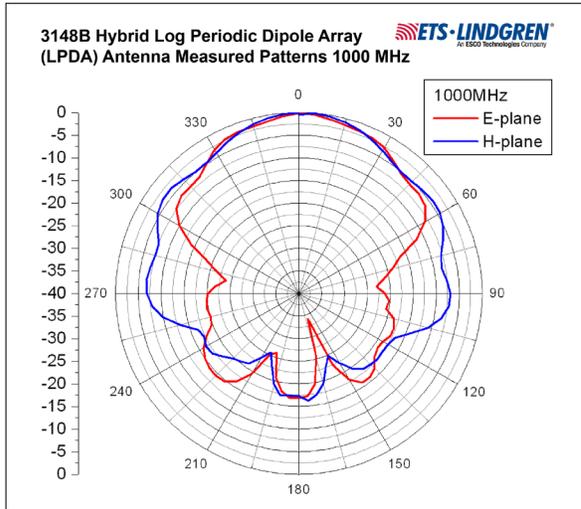
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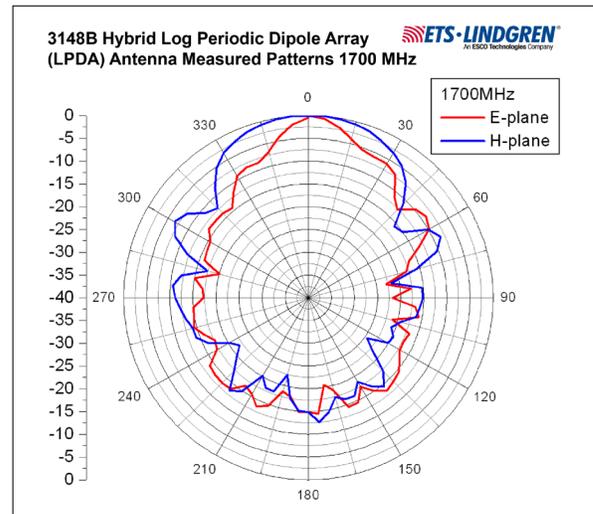
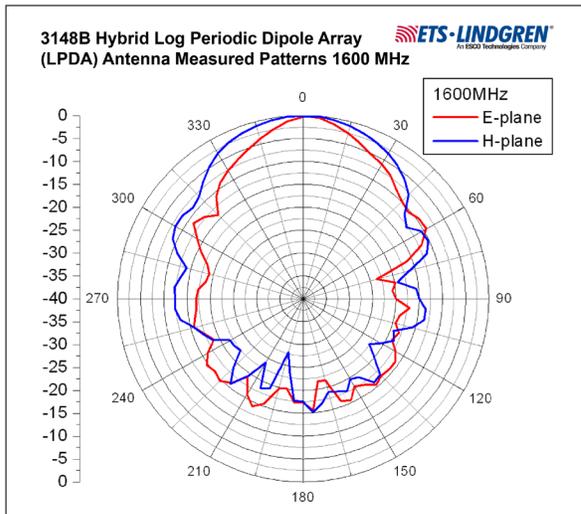
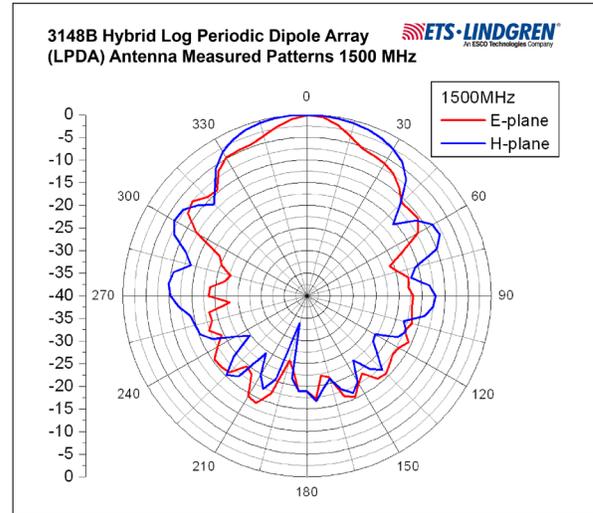
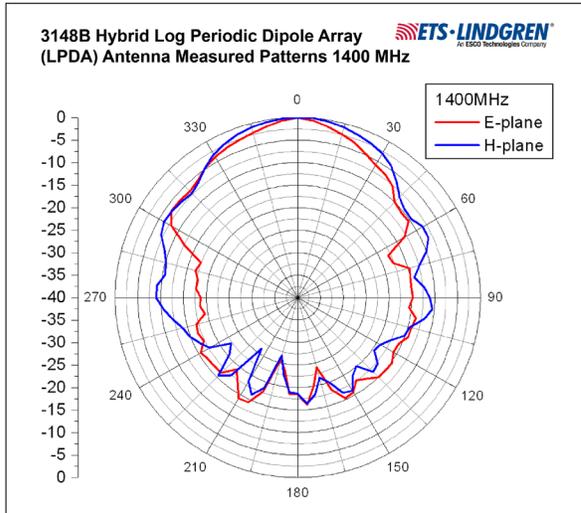
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