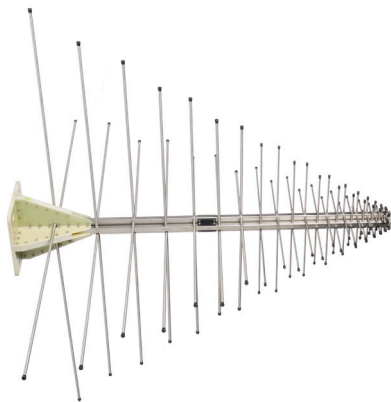


ANTENNA MODEL 3145BDP



MODEL 3145BDP

- 100 MHz to 1.1 GHz Frequency Range
- 1.5:1 VSWR
- Average 800 W Maximum Continuous Input
- Stainless Steel Construction Dual
- Linearly Polarized

ETS-Lindgren's Model 3145BDP Dual-Polarized Log-Periodic Dipole Array (LPDA)

is a dual linearly polarized, broadband log antenna designed to operate over the frequency range of 100 MHz to 1.1 GHz. The choice of scaling factors, the various diameters of each element, and the center-to-center spacing of the booms result in excellent VSWR characteristics throughout the operating frequency range.

The precise design of the feed and positioning of the elements on the boom yields optimum phase relationship. This causes the active region, at any given frequency, to propagate RF energy towards the smaller elements, leaving the elements behind it inactive and operating as reflectors to improve the gain. The constant gain of the antenna yields an antenna factor which varies linearly with frequency. The variation is smooth; therefore, accurate interpolation of performance between specified frequency points is simple.

Frequency Range Ideal for Spectrum Monitoring

The model 3145BDP broadband antenna has a frequency range of 100 MHz to 1.1 GHz makes it ideal for spectrum monitoring over a wide band. Its stainless steel construction allows for operation outdoors for prolonged periods of time. The 3145BDP can also be used for antenna pattern measurement, including outdoor ranges.

Solid Construction

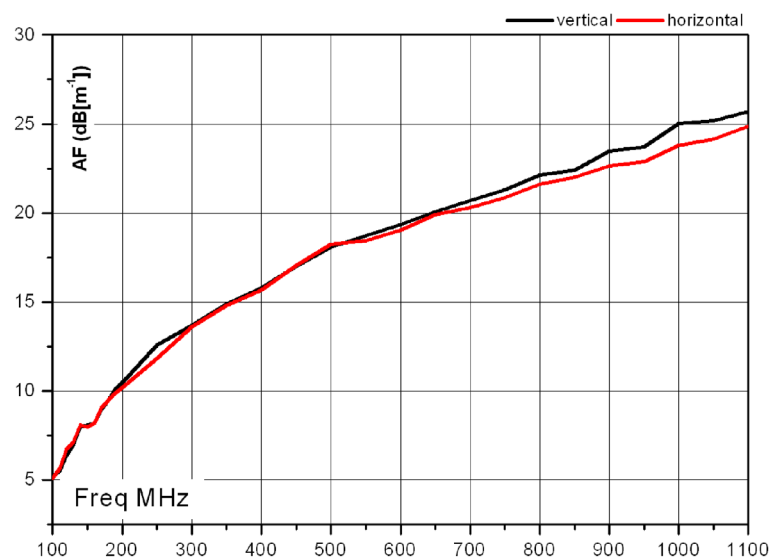
Manufactured of rugged stainless steel, the model 3145BDP is designed for prolonged outdoor use and harsh operating environments. For indoor use, a custom-designed aluminum antenna is also available. Calibrated at 10 m per ANSI C63.5, the model 3145BDP has actual Antenna Factors and a signed Certificate of Conformance included with the antenna.

Technical Specifications

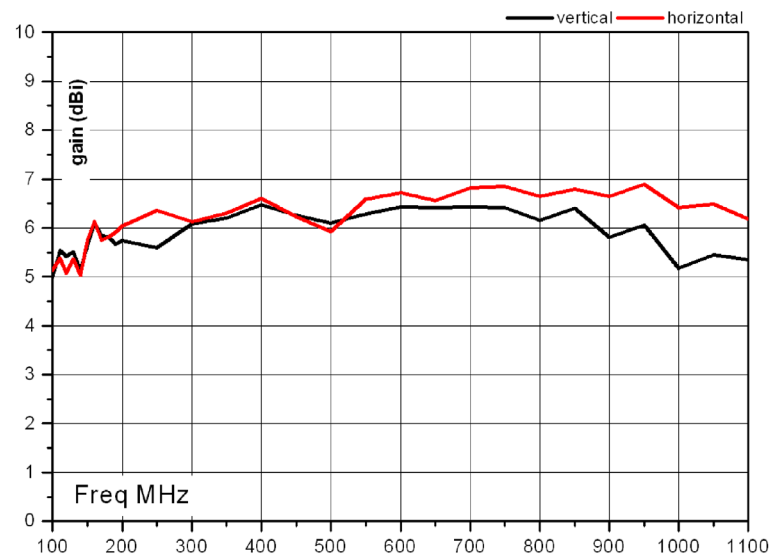
Electrical	
Frequency Minimum	100 MHz
Frequency Maximum	1.1 GHz
Impedance (Nominal)	50
Maximum RF Input Power	800 W
Peak Power	1000 W
Pattern Type	Directional
VSWR	Average: 1.5:1 Maximum: 3.5:1
Polarization	Linear
Connectors	Type N
Physical	
Height	162.18 cm (63.85 in)
Width	162.18 cm (63.85 in)
Depth	132.56 cm (52.19 in)

ANTENNA MODEL 3145BDP

**3145BDP Dual-Polarized Log-Periodic
Dipole Array Antenna Typical AF**



**3145BDP Dual-Polarized Log-Periodic
Dipole Array Antenna Typical Gain**



ANTENNA MODEL 3145BDP

