

3144 LOG-PERIODIC DIPOLE ARRAY

ETS-Lindgren's Model 3144 Log-Periodic Antenna (LPDA) is a standard medium gain (6 dBi) log periodic dipole array.



ETS-Lindgren's Model 3144 Log-Periodic Dipole Array (LPDA) Antenna is a standard medium gain (6 dBi) log-periodic dipole array. This log antenna is enables users to measure from 80 MHz to 2 GHz in one sweep, which saves time and money by eliminating the need for antenna changes at band breaks. In addition, the high power input capacity of the 3144 is ideal for IEC 61000-4-3 testing and applications requiring the

generation of field strengths well in excess of 100 V/m. This antenna features a tough powder coat finish, which protects against scratching and abrasion better than painted or bare surfaces.

Key Features

- 80 MHz to 2 GHz Frequency Range
- Individually Calibrated
- High Gain
- Low VSWR

Features

Frequency Range

The frequency range of the model 3144 is 80 MHz to 2 GHz. This makes the 3144 ideal for IEC 614000-4-3 and other immunity standards covering the frequency range. Additionally, this antenna can also be used for emission measurements.

High Gain

The 3144's 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 translates in low VSWR.

Individually Calibrated

The 3144 is individually calibrated at 1m per SAE ARP 958 and 3m and 10m per ANSI C63.5. This antenna also comes with a signed Certificate of Calibration Conformance.

Specifications

Electrical Specifications

Frequency Minimum: 80 MHz
Frequency Maximum: 2 GHz
Connectors: Type N (f)
Impedance (Nominal): 50 Ω
Maximum Continuous Power: 1000 W
Peak Power: 2.6 kW
VSWR (AVG): 1.2:1
Pattern Type: Directional
Polarization Linear

Physical Specifications

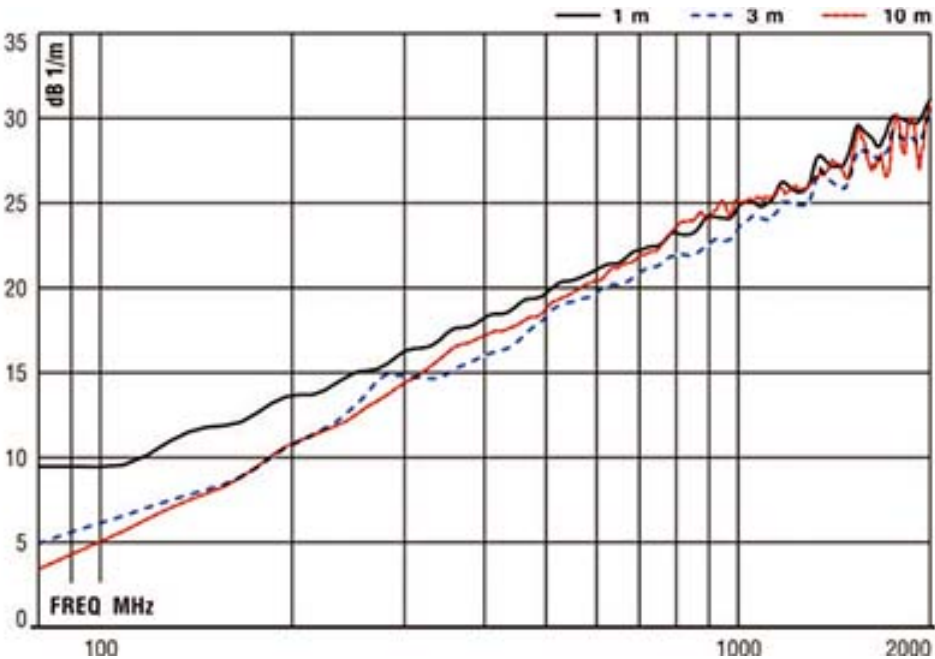
Height: 9.5 cm (3.74 in)
Length: 170.2 cm (67.01 in)
Weight: 4.5 kg (9.92 lb)
Width: 210.8 cm (82.99 in)

Other Specifications

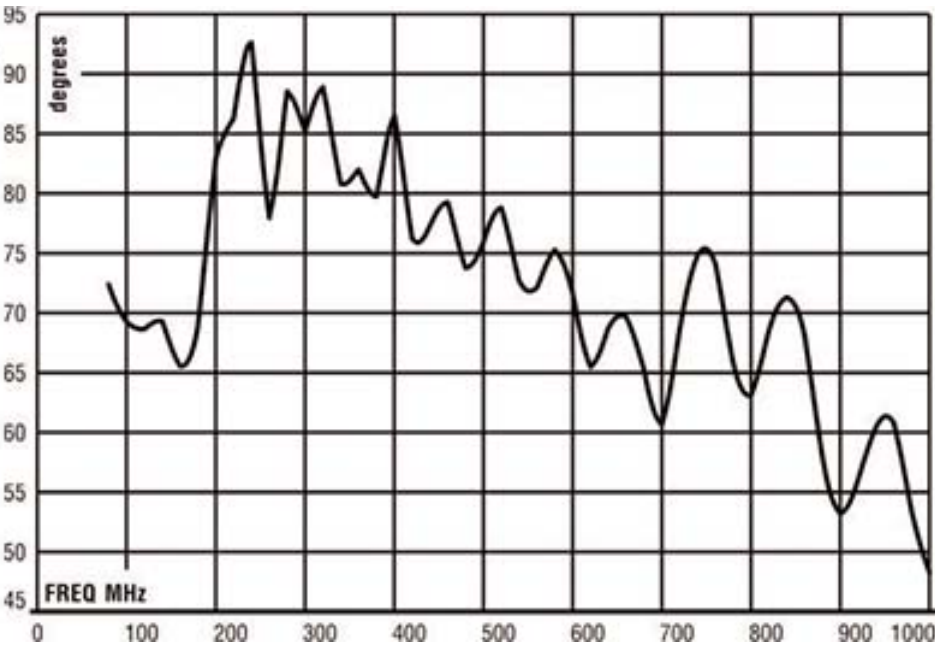
- Antenna
- Standard Calibration at 1m and 3m per SAE ARP 958 and 10m per ANSI C63.5, Horizontal Polarization

Product Charts

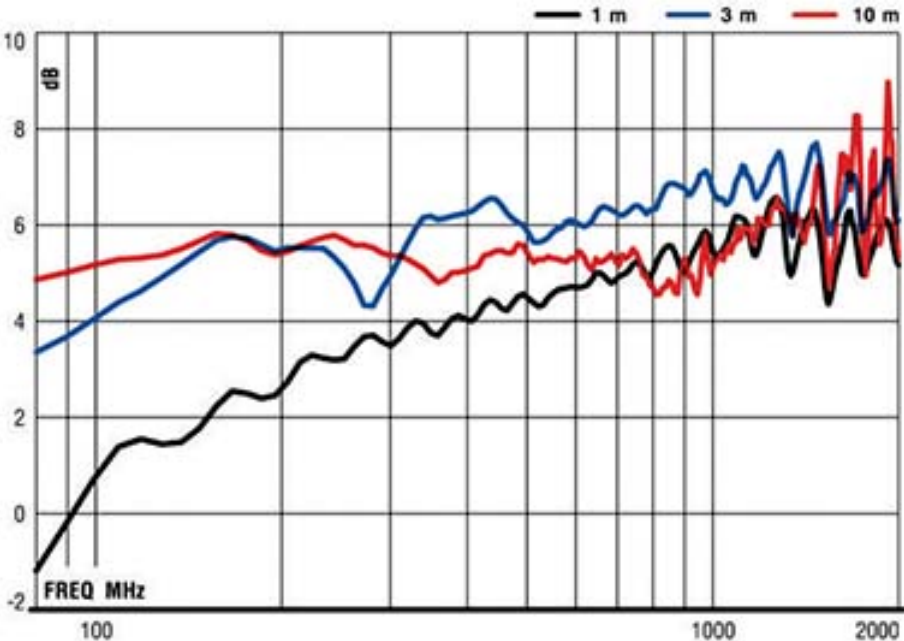
3144 Log Periodic Dipole Array Antenna Factor



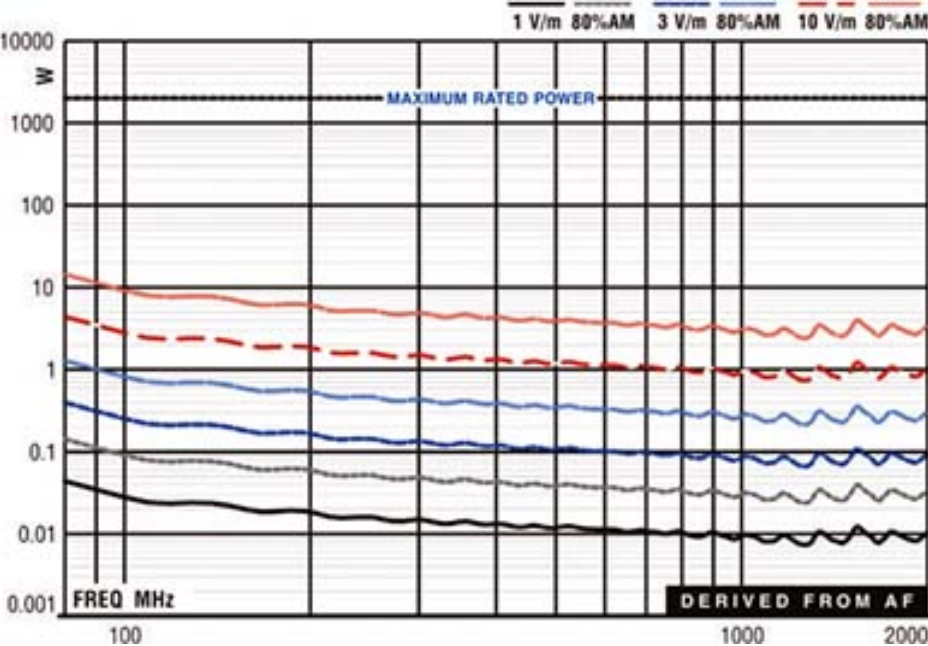
3144 Log Periodic Dipole Array Beamwidth



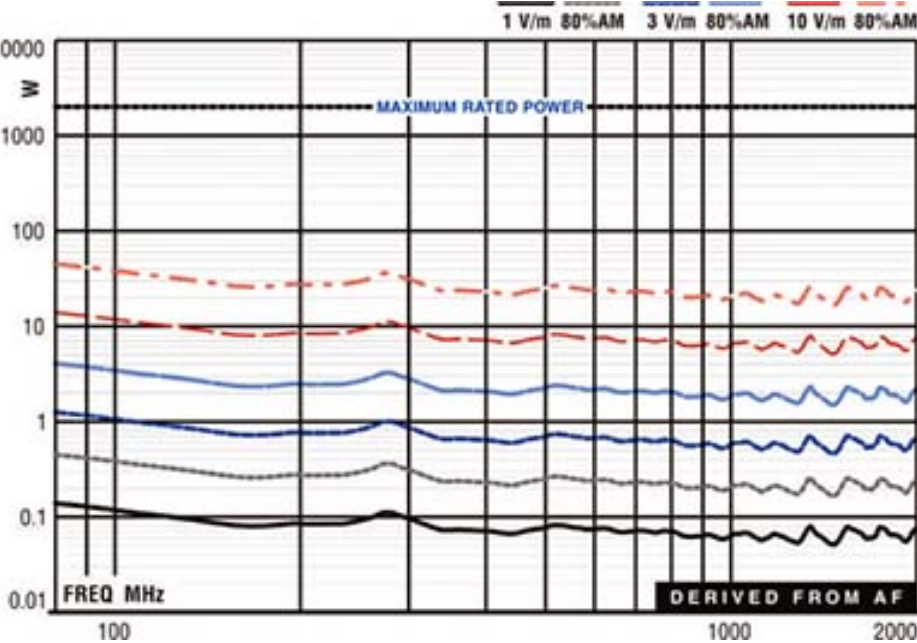
3144 Log Periodic Dipole Array Gain



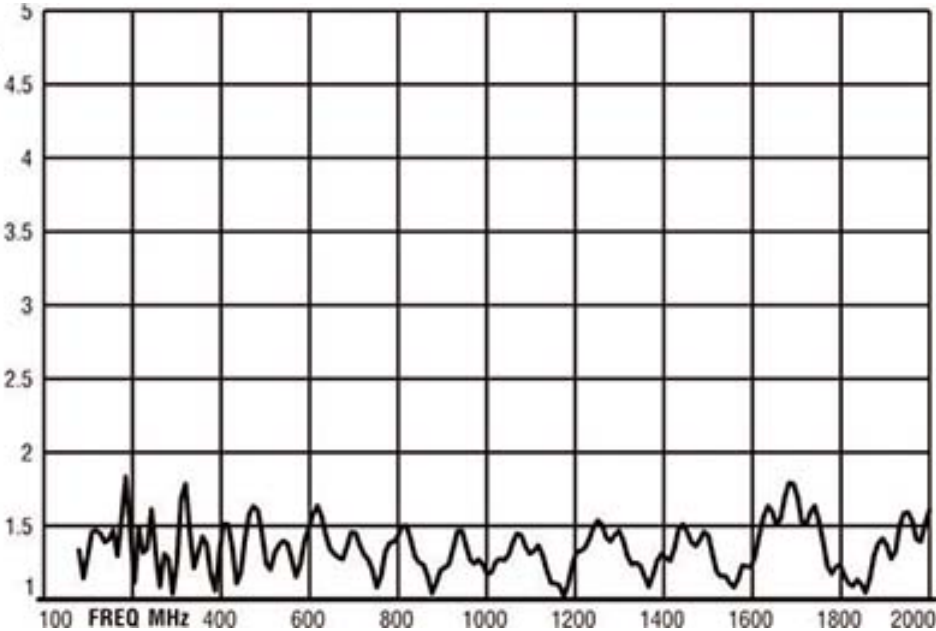
3144 Log Periodic Dipole Array Forward Power at 1 m



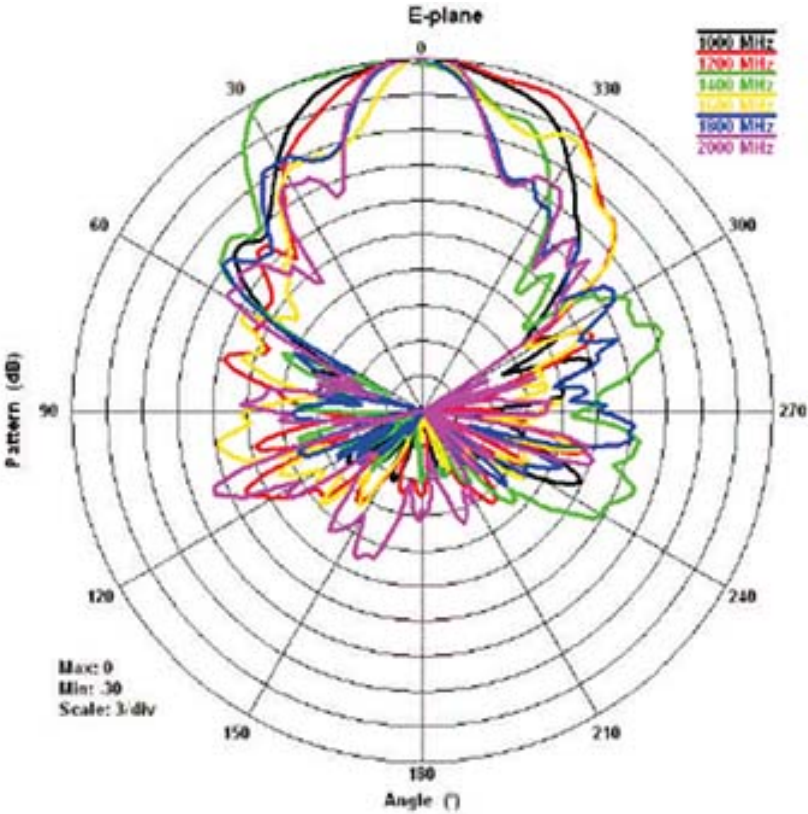
3144 Log Periodic Dipole Array Forward Power at 3 m



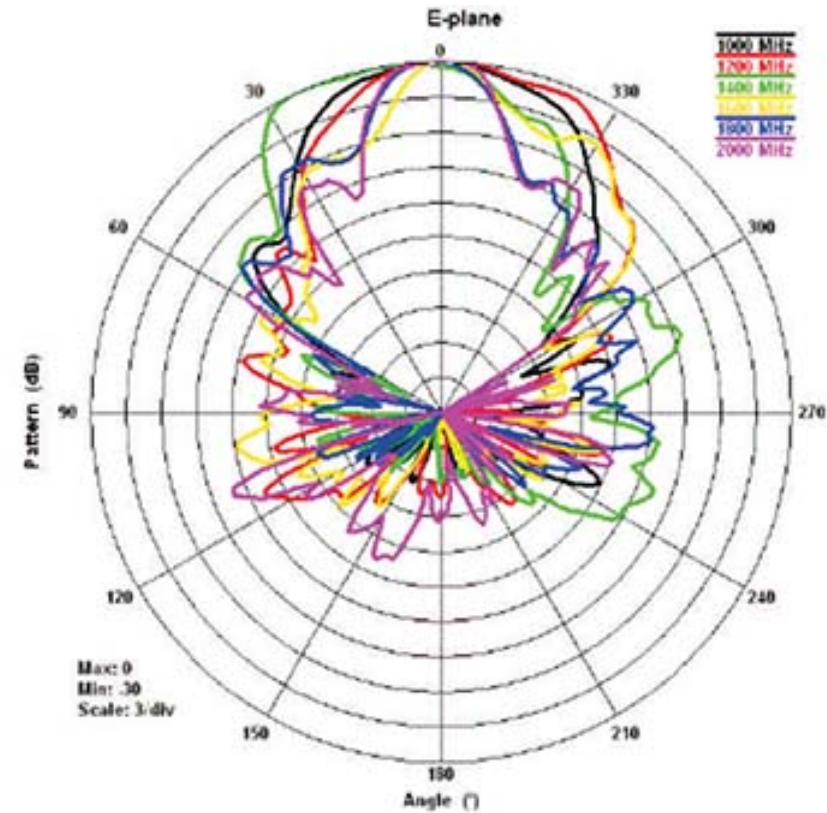
3144 Log Periodic
Dipole Array
VSWR



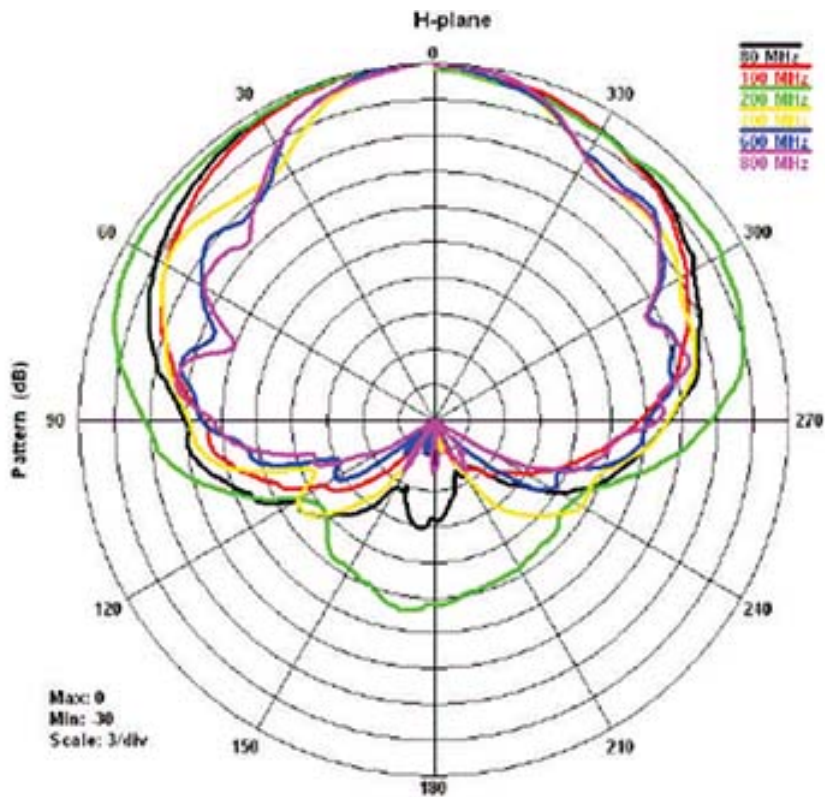
3144 Log Periodic
Dipole Array
E-Plane
80 MHz to 900 MHz



3144 Log Periodic
Dipole Array
E-Plane
1 GHz to 2 GHz



3144 Log Periodic
Dipole Array
H-Plane
80 MHz to 900 MHz



3144 Log Periodic
Dipole Array
H-Plane
1 GHz to 2 GHz

