

3112 DOUBLE-RIDGED GUIDE ANTENNA

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ETS-Lindgren's Model 3112 Double-ridged Waveguide Horn is a linearly polarized broadband antenna providing high gain and excellent VSWR characteristics over a broadband frequency range of 100 MHz to 1 GHz. The antenna is especially effective for generating high electromagnetic fields with relatively low power input.

The 3112's high gain makes it suitable for generating the high fields (200 V/m) necessary per the ISO 11451-2 and SAE J551/11 full-vehicle automotive radiated immunity standards with less than 2 kW. Additionally, since the Model 3112 is a double-ridge waveguide horn, it is the accepted antenna for MIL-STD-461E, bringing the desirable

performance of this type of antenna lower frequencies.

Like other double-ridged waveguides in this series, the Model 3112 is precision manufactured from aluminum, making it durable and relatively lightweight. To maximize performance, a type N connector is used (other connectors available upon request). Each antenna is individually calibrated at our A2LA accredited test lab and comes with actual factors and a signed Certificate of Conformance. A two-year warranty is included.

Key Features

- 100 MHz to 1 GHz Frequency Range
- Low VSWR
- Uniform Gain
- Continuous Power Handling up to 2000 W

Specifications

Electrical Specifications

Frequency Minimum: 100 MHz
Frequency Maximum: 1 GHz
Impedance (Nominal): 50 Ω
Maximum Continuous Power: 800 W
Maximum Power: 2 kW
Pattern Type: Directional
Polarization: Linear
VSWR: <1.6:1

Physical Specifications

Height: 144 cm (56.69 in)

Length: 195.6 cm (77.01 in)

Width: 186.6 cm (73.46 in)

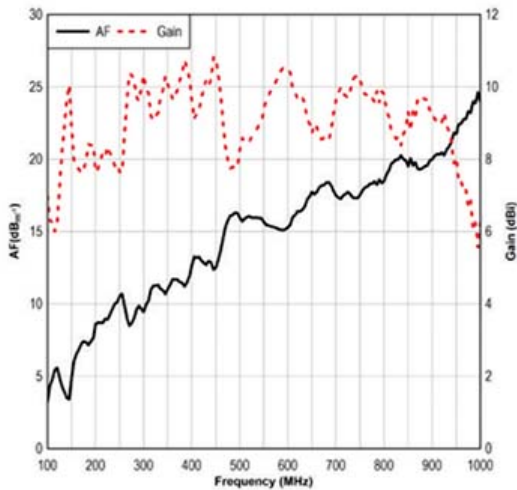
Weight: 86.1 kg (189.82 lb)

Other Specifications

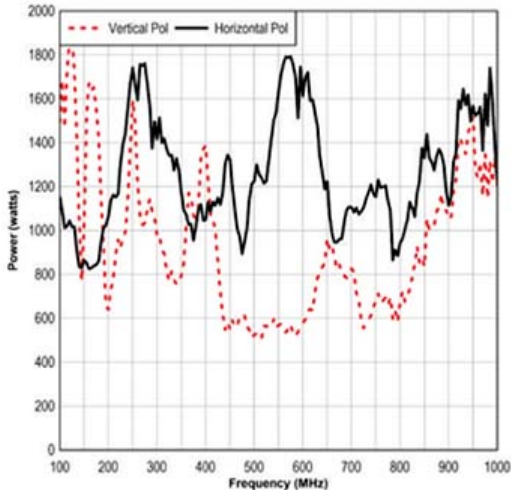
- Antenna
- Mounting Brackets
- Welded Aluminum Support Frame and Front Rest Bar
- Individually Calibrated at 1 m per SAE ARP 958
- Actual antenna factors and a signed Certificate of Calibration Conformance provided.
- Two Year Warranty

Product Charts

3112 Double-Ridged Guide Antenna
AF and Gain



3112 Double-Ridged Guide Antenna
Power Required for 200 V/m at 2 m



3112 Double-Ridged Guide Antenna
VSWR

