

## DOUBLE-RIDGED GUIDE 3112 Double-Ridged Guide Antenna

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.



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  $\Omega$   
**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)

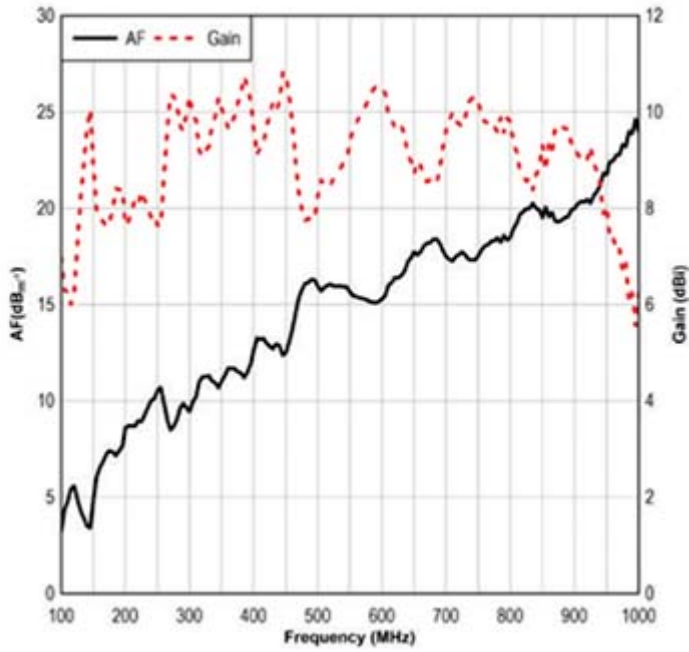
## Other Specifications

---

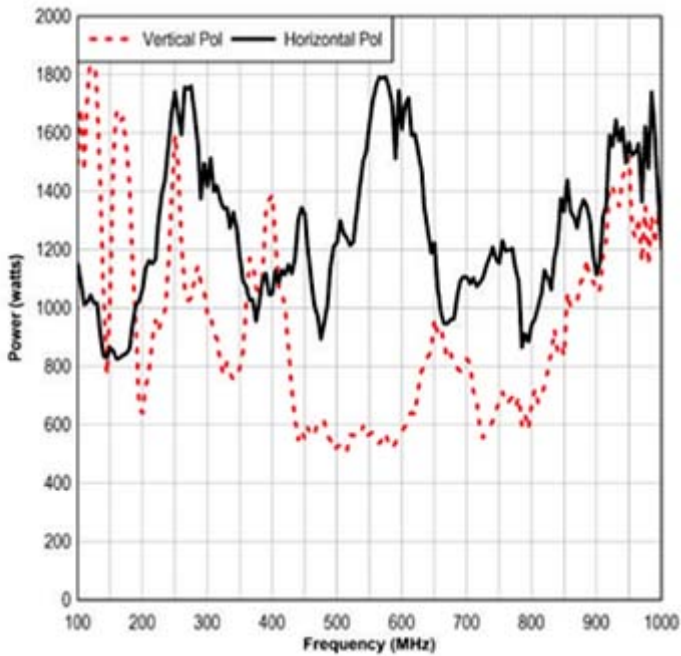
- Antenna
- Mounting Brackets
- Welded Aluminum Support Frame and Front Rest Bar
- Individually Calibrated at 1 m per SAE ARP 958
- Actual antenna factors and a signed Certificate of Calibration Conformance provided.
- Two Year Warranty

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**

