

## 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

**4TECT**

000 "4TECT"  
 +7(499)685-44-44  
 info@4test.ru  
 www.4test.ru

 **ETS-LINDGREN**  
 An ESCO Technologies Company

## 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)

## Additional 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

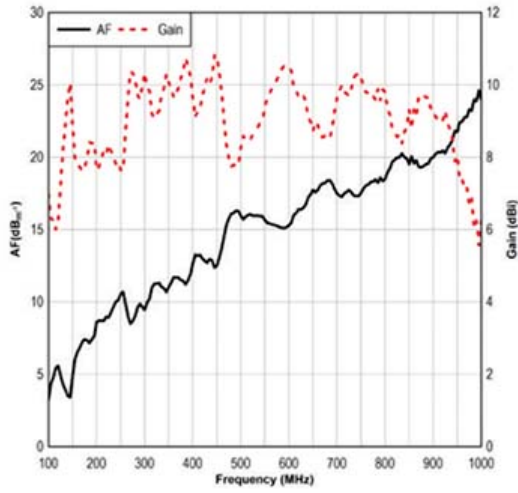
## Product Options

---

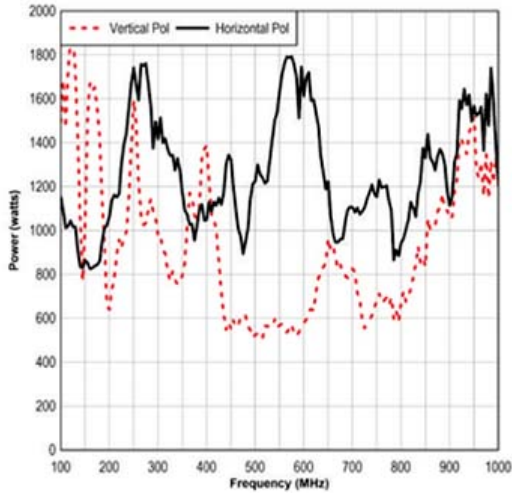
- 109621 Positioning System with pneumatic polarization

Product Charts

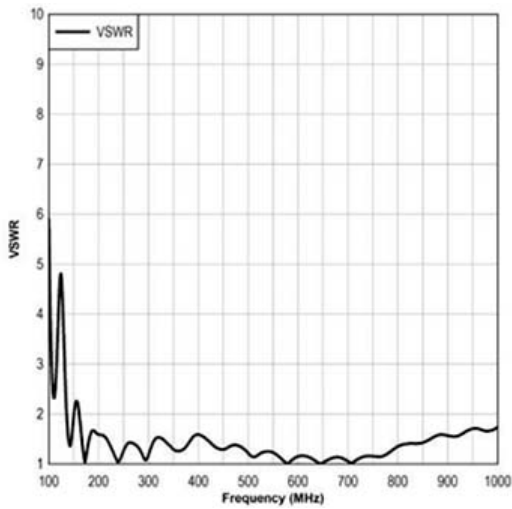
3112 Double-Ridged Guide Antenna  
AF and Gain



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



3112 Double-Ridged Guide Antenna  
VSWR



OOO "4TECT"  
+7(499)685-44-44  
info@4test.ru  
www.4test.ru

