

# ANTENNA MODEL 3112



## MODEL 3112

- 100 MHz to 1 GHz Frequency Range
- Low VSWR
- Uniform Gain
- Continuous Power Handling up to 800W

**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.

## Standard Configuration

- Antenna
- Mounting brackets, welded aluminum support frame and front rest bar
- Individually calibrated at 1 m per SAE APR 958. Actual antenna factors and a signed Certificate of Conformance are included with manual
- Two-year warranty

## Options

- Fixed height pneumatic polarization positioner

## Technical Specifications

Electrical	
Frequency Minimum	100 MHz
Frequency Maximum	1 GHz
Impedance (Nominal)	50
Maximum Continuous Power	800 W
Peak Power	1.5 kW
Maximum Power	2 kW
VSWR	<1.6:1
Pattern Type	Directional
Polarization	Linear
Connectors	Type N (f), EIA 1 5/8 in flange
Physical	
Height	203.2 cm (80 in)
Depth	182 cm (71.65 in)
Length	139.7 cm (56 in)
Weight	86.1 kg (189.81 lb)

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