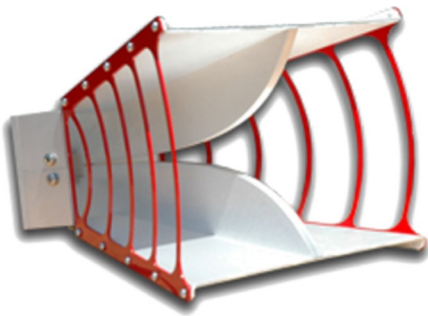


## 3115 Double-Ridged Guide Antenna

ETS-Lindgren's Model 3115 Double-Ridged Guide Horn Antenna has been an industry standard for many years.



### Key Features

**Frequency Range 750 MHz to 18 GHz**

**Uniform Gain**

**Individually Calibrated**

**Low VSWR Continuous Power Handling Capability 300W**

ETS-Lindgren's Model 3115 Double-Ridged Guide Horn Antenna has excellent gain and VSWR characteristics, it is small and portable with a length of 24.4 cm (9.6 in), and is now calibrated to 750 MHz.

## Product Features

View the 3115 Double-Ridged Guide Antennaproduct features below

### Ultra Broadband

The model 3115 sweeps from 750 MHz to 18 GHz without stopping for band breaks, making it ideal for automated testing. It has the widest usable frequency range of any antenna in its class, with no performance degradation from high order modes.

### Power Input

This horn antenna uses a Type N precision connector and accepts up to 300 watts of continuous input power. The antenna's high gain and low VSWR over its operating frequency translates into efficient amplifier use and higher field strengths.

### Construction

An antenna constructed to maximize structural integrity is better able to maintain its electrical properties. The benefits are better measurement repeatability, lower uncertainty values and longer calibration validity. Constructed of powder coated aluminum plate, the 3115 will provide years of trouble-free indoor and outdoor service. This antenna is small and portable with a length of 24.4 cm (9.6 in). This antenna includes a 1/4 in x 20 tripod mount.

## Specifications

View the 3115 Double-Ridged Guide Antenna technical specifications below

### Physical Specifications

**Height:** 15.9 cm (6.26 in)  
**Length:** 27.9 cm (10.98 in)  
**Width:** 24.4 cm (9.61 in)  
**Weight:** 1.8 kg (3.97 lb)

### Electrical Specifications

**Frequency Minimum:** 750 MHz  
**Frequency Maximum:** 18 GHz  
**Connectors:** Precision N (f)  
**Nominal Impedance:** 50  
**Maximum Continuous Power:**

- 500W: 800 MHz to 1 GHz
- 300W: 1 GHz to 18 GHz

  
**Peak Power:** 500 W  
**VSWR:** <2:1 (Average)  
**Pattern Type:** Directional  
**Polarization:** Linear

### Product Options

- ETS-Lindgren Offers Several Non-metallic, Non-reflective Tripod

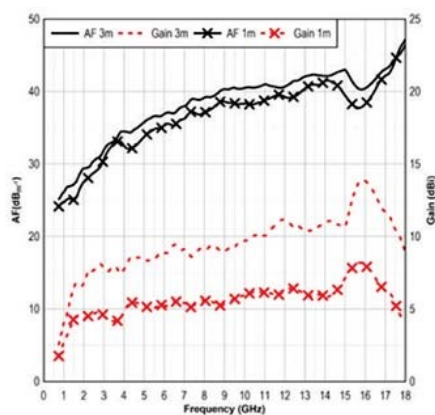
### Product Configuration

- Antenna
- Mounting Bracket Accepts an ETS-Lindgren or Other Tripod Mount with Standard 1/4 in x 20 Threads
- Individually Calibrated at 1 m per SAE ARP 958. Actual factors and a signed Certificate of Calibration Conformance provided.
- Carrying case included

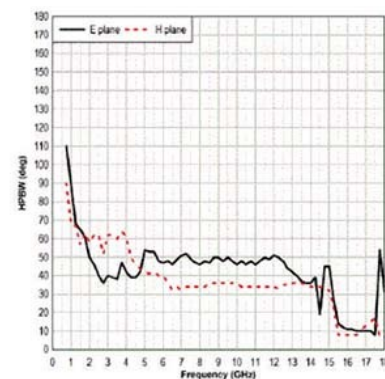
## Charts

View the 3115 Double-Ridged Guide Antenna charts below

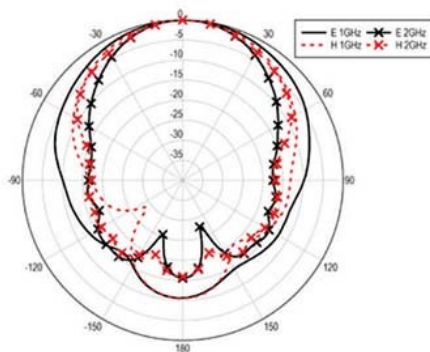
**3115 Double-Ridged  
Guide Antenna  
AF and Gain**



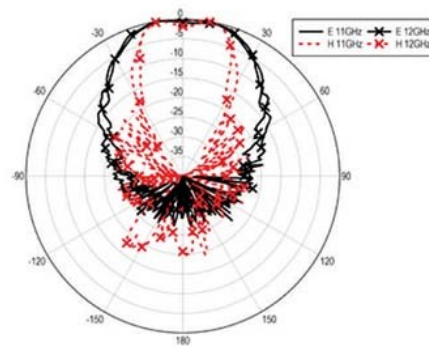
**3115 Double-Ridged  
Guide Antenna  
Half Power Beamwidth**



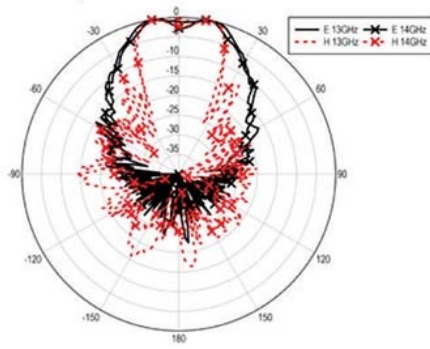
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
1 GHz and 2 GHz**



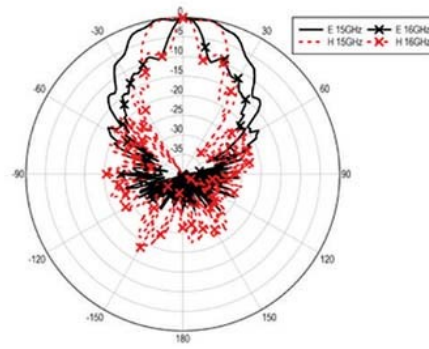
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
11 GHz and 12 GHz**



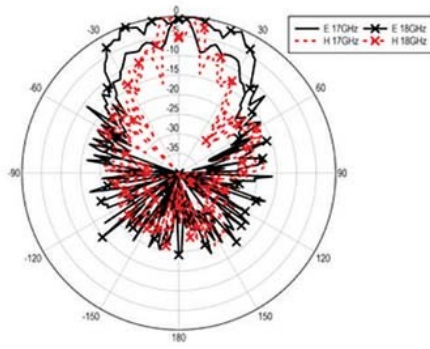
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
13 GHz and 14 GHz**



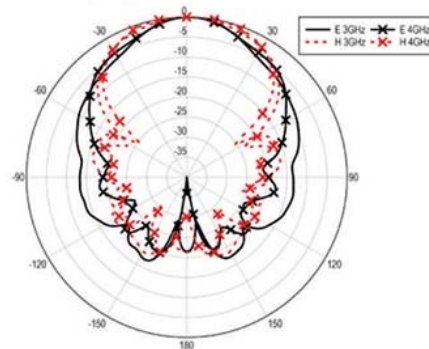
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
15 GHz and 16 GHz**



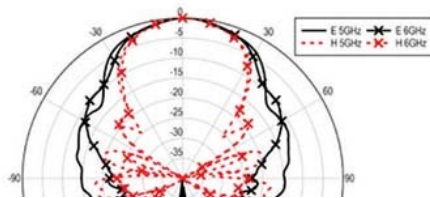
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
17 GHz and 18 GHz**



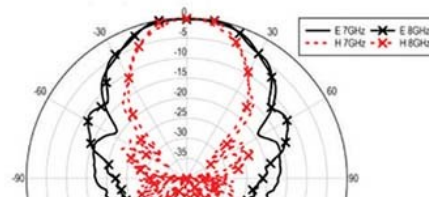
**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
3 GHz and 4 GHz**

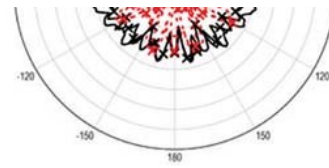
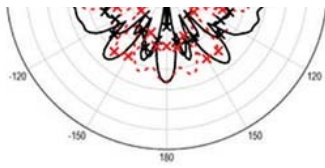


**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
5 GHz and 6 GHz**

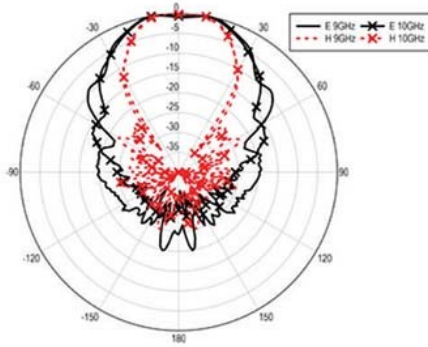


**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
7 GHz and 8 GHz**





**3115 Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
9 GHz and 10 GHz**



**3115 Double-Ridged  
Guide Antenna  
VSWR**

