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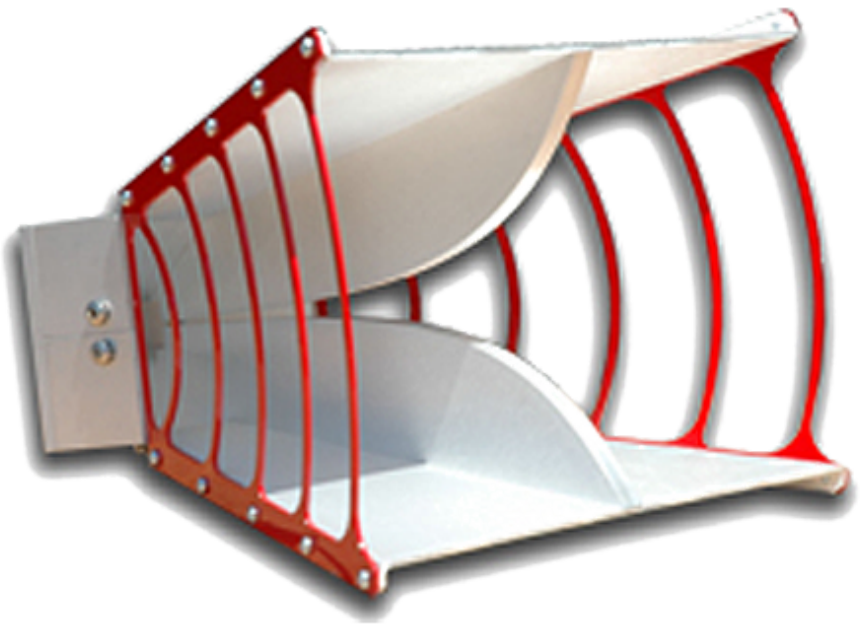
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3115 Double-Ridged Guide Antenna



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.

Key Features

- Frequency Range 750 MHz to 18 GHz
- Uniform Gain
- Individually Calibrated
- Low VSWR Continuous Power Handling Capability 300W

Product Features

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

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: 300 W
Peak Power: 500 W
VSWR Ratio: 2:1 (3:1 Max) > 1 GHz
5:1 (Typical) @ 750 MHz
Pattern Type: Directional
Polarization: Linear

Product Options

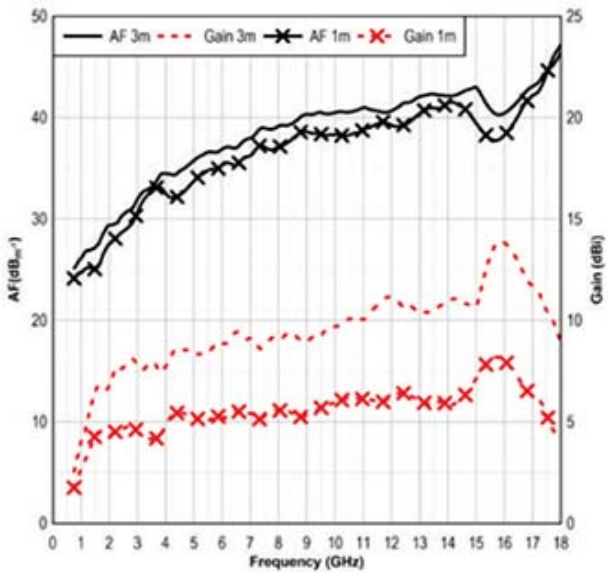
- ETS-Lindgren Offers Several Non-metallic, Non-reflective Tripod

Product Configuration

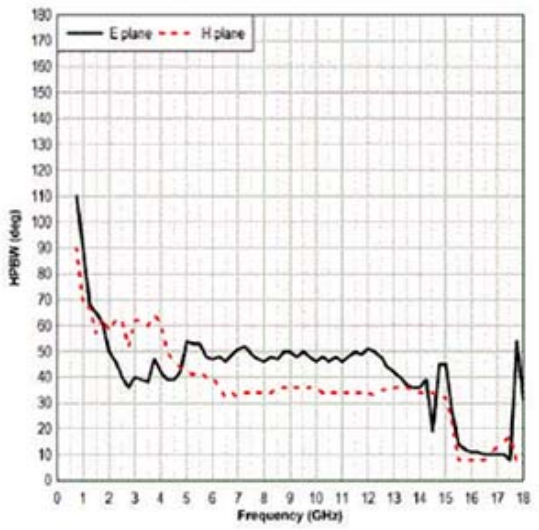
- Antenna
- Mounting Bracket Accepts an ETS-Lindgren or Other Tripod Mount with Standard 1/4 in x 20 Threads
- Individually Calibrated at 1 m per SAE ARP 958. Actual factors and a signed Certificate of Calibration Conformance provided.
- Carrying case included

Charts

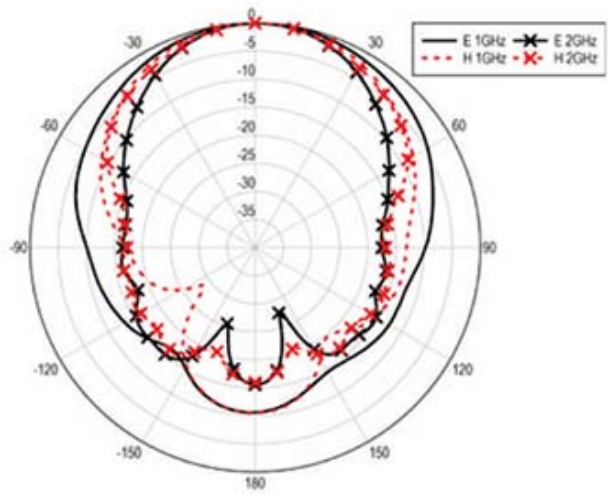
3115 Double-Ridged Guide Antenna AF and Gain



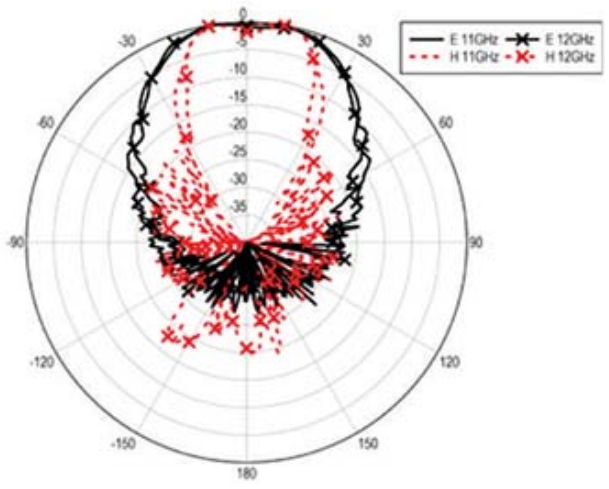
3115 Double-Ridged Guide Antenna Half Power Beamwidth



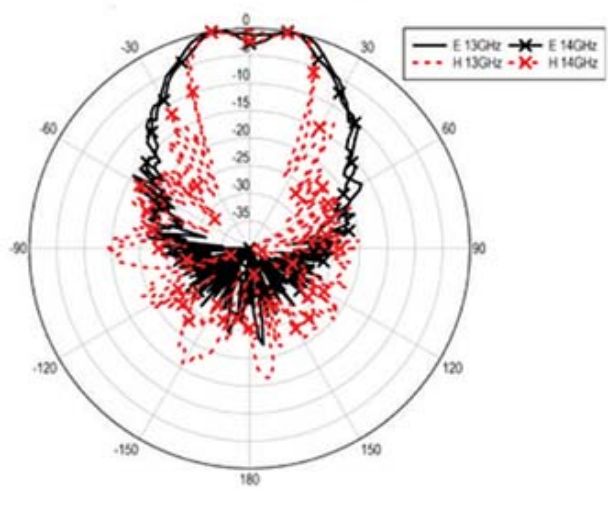
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 1 GHz and 2 GHz



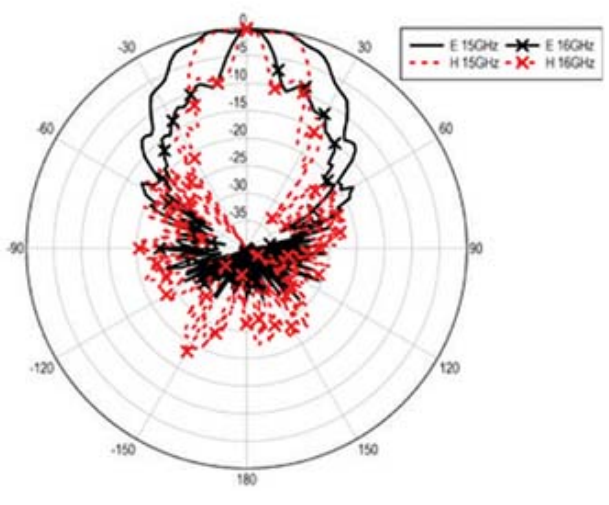
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 11 GHz and 12 GHz



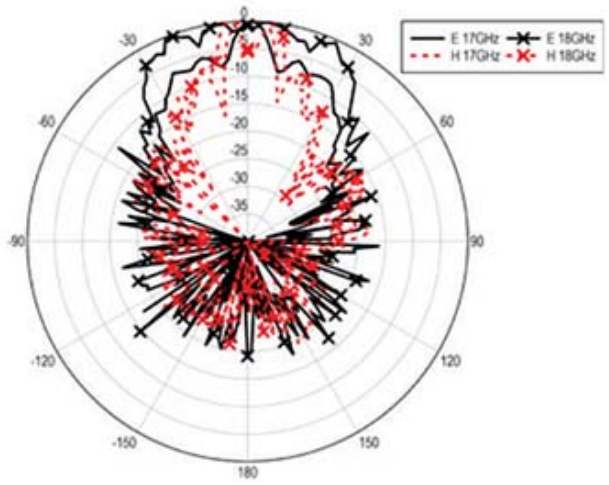
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 13 GHz and 14 GHz



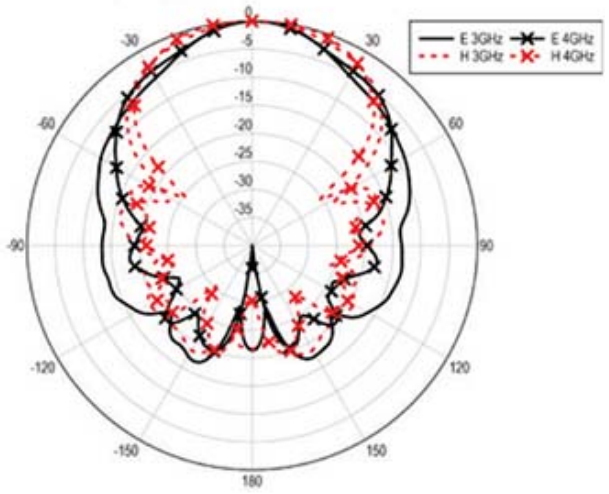
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 15 GHz and 16 GHz



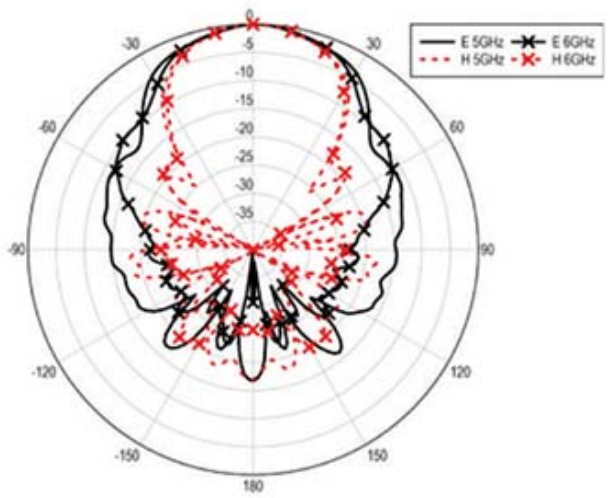
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 17 GHz and 18 GHz



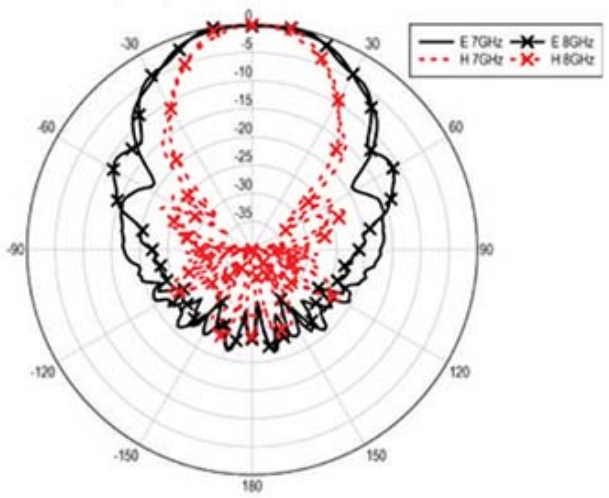
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 3 GHz and 4 GHz



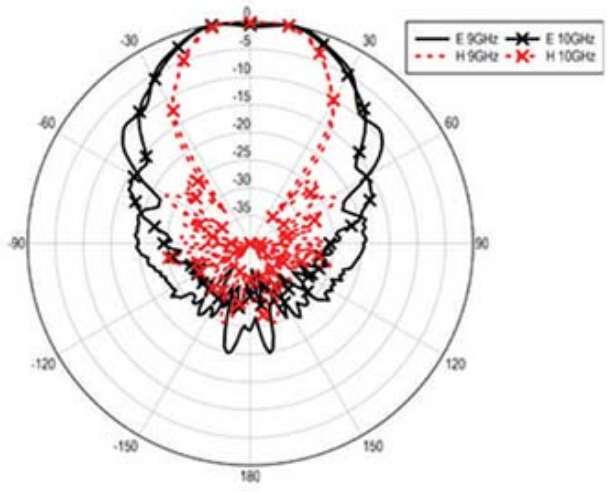
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 5 GHz and 6 GHz



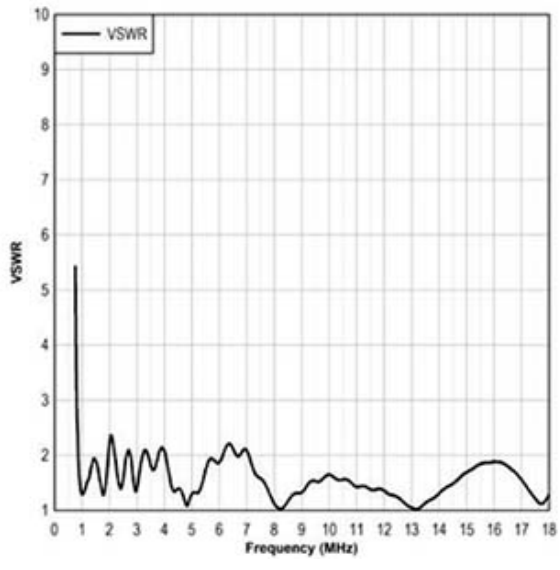
3115 Double-Ridged Guide Antenna Measured Patterns E and H Plane 7 GHz and 8 GHz



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



3115 Double-Ridged Guide Antenna VSWR



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