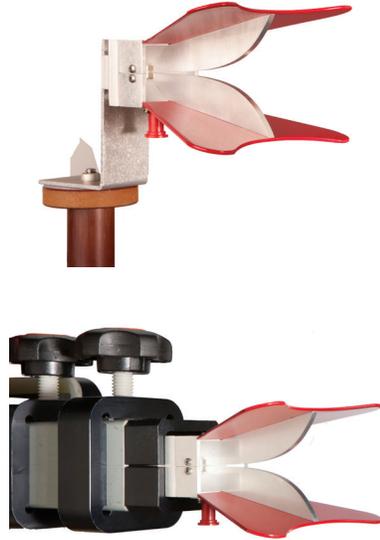


ANTENNA MODEL 3116C



MODEL 3116C

- Frequency Range 10 GHz to 40 GHz
- 20 W Power Handling Capability
- Low VSWR
- Uniform Gain
- Individually Calibrated

ETS-Lindgren's Model 3116C Double-Ridged Waveguide Horn Antenna corrects the lower gain at the upper end of the frequency range that is commonly found in ridged waveguide antennas.

Electrical characteristics of this antenna were designed and modeled using powerful workstations running electromagnetic simulation software. Experienced RF engineers worked with our manufacturing team to produce a practical and affordable realization of the modeling process. All production units are individually calibrated at our A2LA accredited lab.

Power Input

This horn antenna accepts up to 20 W 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.

Uniform Gain, Low VSWR

The Model 3116C has a more uniform gain and antenna factor because of the better behavior of its radiation pattern. Since the pattern is stable over frequency, the gain and the AF also remain stable. The gain has less than 4 dB variation over the entire range.

Flexible Mounting

The Model 3116C comes with a bracket that accepts either a 1/4" 20 thread screw or rear stinger mount.

Standard Configuration

- Model 3116C Antenna Assembly
- Stinger Mount
- Mounting Bracket Drilled Accepts 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
- Manual

Options

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

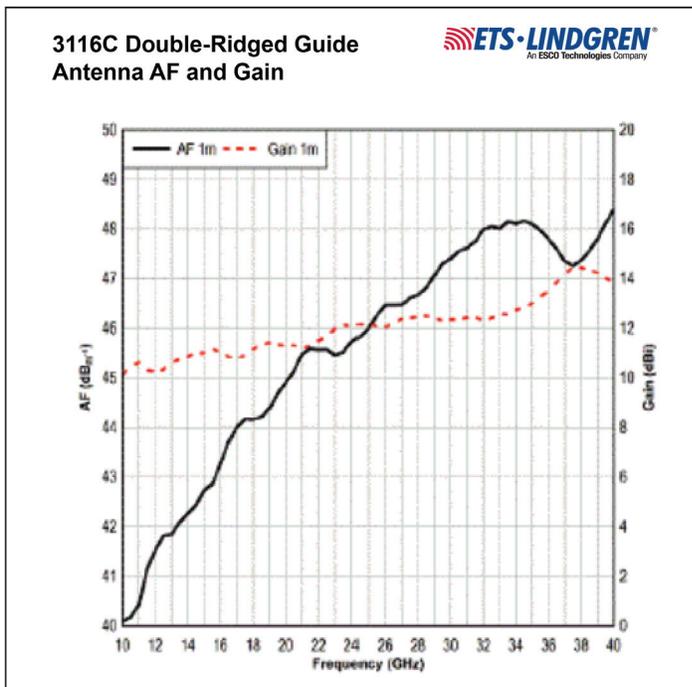
Technical Specifications

Electrical	
Frequency Minimum	10 GHz
Frequency Maximum	40 GHz
Impedance (Nominal)	50
Maximum Continuous Power	40 W (10 GHz) to 20 W (40 GHz)
Peak Power	200 W
Pattern Type	Directional
Polarization	Linear
VSWR	2.5:1
Connectors	Type K (F), 2.92 mm

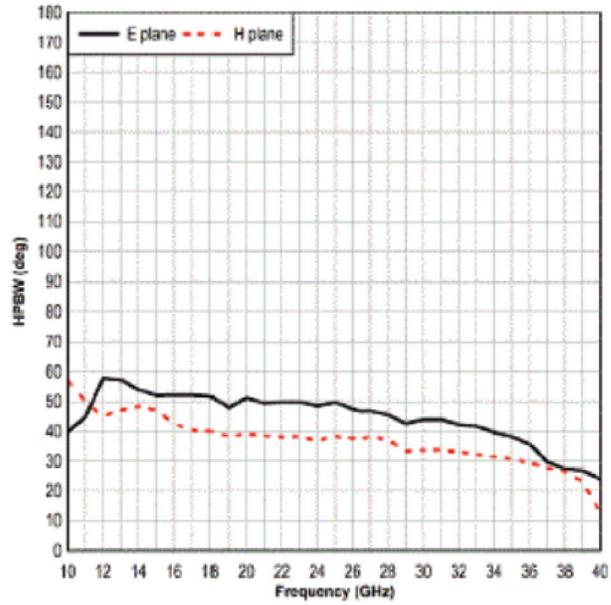
ANTENNA MODEL 3116C

Physical Specifications

Model	Height	Width	Depth	Weight
3116C with 1/4 in x 20 Mounting Bracket	8.9 cm (3.5 in)	10.8 cm (4.3 in)	13.0 cm (5.1 in)	0.20 kg (0.44 lb)
3116 with Stinger Bracket	6.4 cm (2.5 in)	10.8 cm (4.3 in)	25.7 cm (10.1 in)	0.33 kg (0.74 lb)



**3116C Double-Ridged Guide
Antenna Half Power Beamwidth**



**3116C Double-Ridged Guide
Antenna VSWR**

