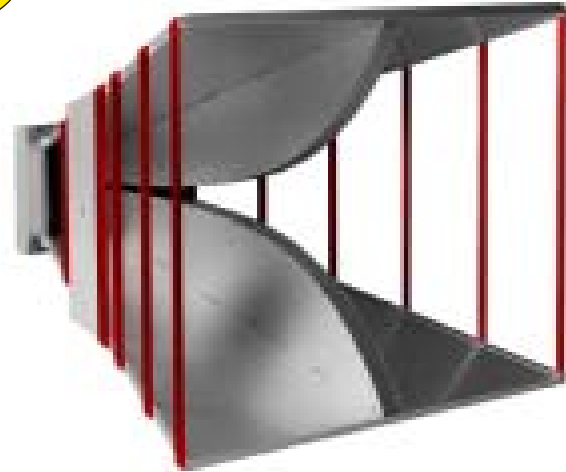


**3-D Patterns  
Available at  
[www.ets-lindgren.com/3106B](http://www.ets-lindgren.com/3106B)**

## Features

- **Increased Frequency Range: 200 MHz - 2.5 GHz**
- **6 dB Gain Improvement at 2 GHz**
- **Maintains Single Lobe Radiation Pattern Over Frequency**
- **Low VSWR**
- **1.6 kW Power Input Capacity**



*ETS-Lindgren's Model 3106B Double-Ridged Waveguide Horn*

**The Model 3106B Double-Ridged Waveguide Horn** is a new, updated version of an industry standard. New improvements to this classic allow it to outperform other antennas in its class. The frequency range has been increased from 2 GHz to 2.5 GHz. Better beam forming has resulted in a single main lobe across frequency. A 6 dB gain improvement has been achieved at 2 GHz.

The Model 3106B was designed to generate high electromagnetic fields with relatively low power input, and low-level signals where high gain characteristics are needed. The new improvements that were made to this antenna further enhance those capabilities.

## Features

### Increased Frequency

The Model 3106B's frequency range has

been increased from 2 GHz to 2.5 GHz. Measurements can be made over a greater frequency range without stopping for band breaks. The extended frequency range provides a comfortable overlap with other antennas in this series.

### Improved Lobe Pattern

The 3106B now produces a well-defined single lobe radiation over its operational frequency range. As a result, electromagnetic energy is evenly distributed on target surfaces, while improving information for gain and vector measurements.

### Improved Gain

Enhancements to the Model 3106B have resulted in an increase of 6 dB gain at 2 GHz. This characteristic translated into more efficient amplifier use and generation of higher field strengths with less power input than similar antennas. At 2 GHz the 3106B's gain is 9 dB as opposed to

3 dB with the original 3106 design. This requires only a calculated 168 watts to generate 200 V/m at 1 m, vs. 668 watts for the original 3106.

## Standard Configuration

- Antenna Assembly
- Mounting bracket drilled to accept ETS-Lindgren or other tripod mounts with 1/4 in x 20 threads
- Individually calibrated at 1 m per SAE ARP 958 at our A2LA accredited lab. 3 m calibration per ANSI C63.5 available at additional cost. Actual antenna factors and a signed Certificate of Calibration Conformance included with manual

## Applications

FCC-15	FCC-18	IEC/CISPR/EN	SAE J1113	SAE J551	MIL-STD-461E	MIL-STD 1541	NACSIM
RE	RE	RE, RI	RE, RI	RE, RI	RE, RI	RE, RI	RE

## Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	PEAK POWER	IMPEDANCE (NOMINAL)	CONNECTORS
<b>3106B</b>	200 MHz - 2.5 GHz	<1.6 : 1 max	800 W	1600 W	50 Ω	Type N (f)

## Physical Specifications

MODEL	WIDTH	LENGTH	HEIGHT	WEIGHT
<b>3106B</b>	93.3 cm 36.7 in	97.8 cm 38.5 in	72.9 cm 28.7 in	11.8 kg 26.0 lb

**USA:**

Tel +1.512.531.6400  
Fax +1.512.531.6500

**FINLAND:**

Tel +358.2.8383.300  
Fax +358.2.8651.233

**UK:**

Tel +44.(0)1438.730700  
Fax +44.(0)1438.730751

**FRANCE:**

Tel +33.1.48.65.34.03  
Fax +33.1.48.65.43.69

**CHINA:**

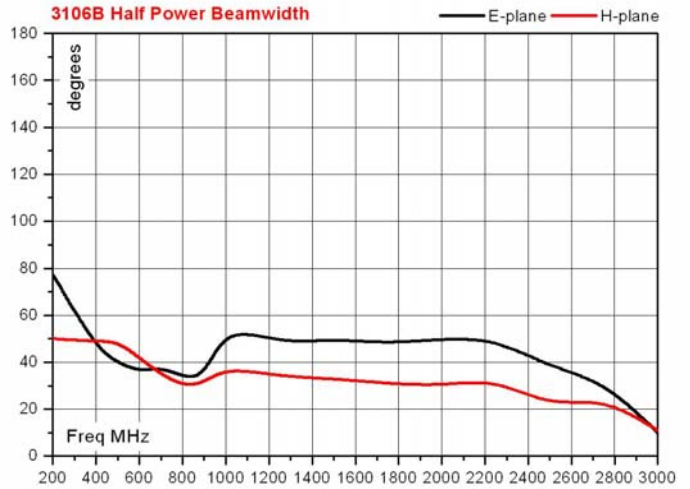
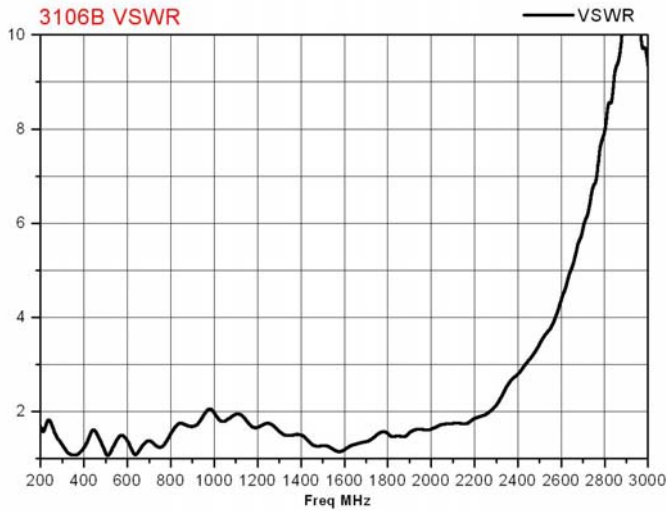
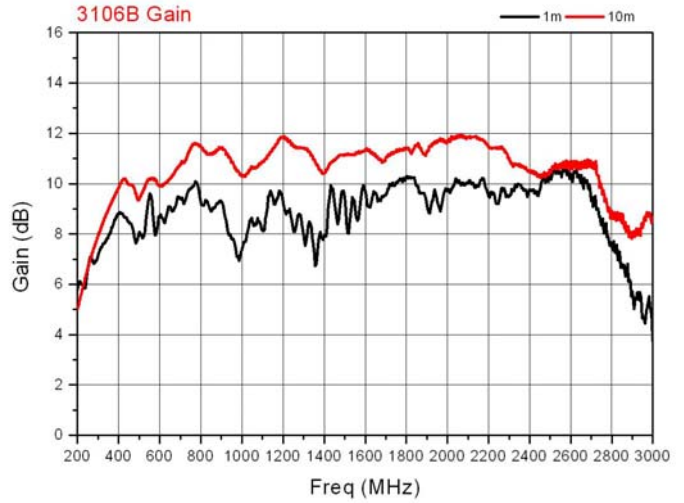
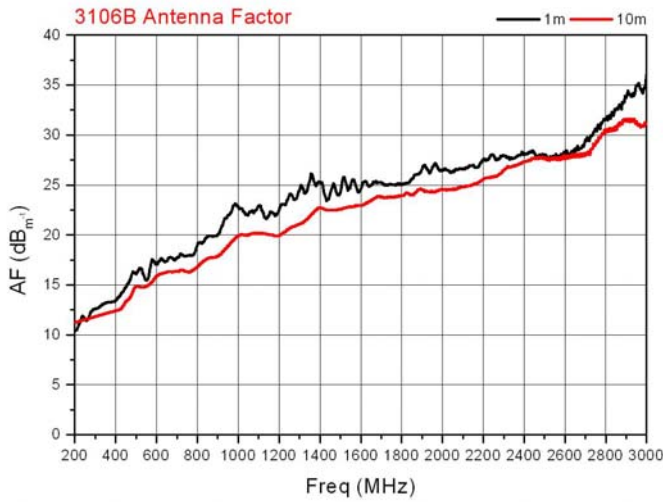
Tel +8610.8275.5086  
Fax +8610.8275.5537

**JAPAN:**

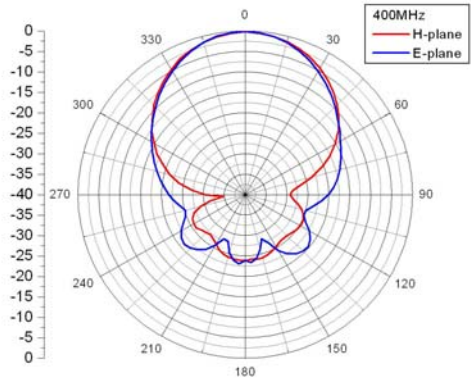
Tel +81.3.3813.7100  
Fax +81.3.3813.8068

**ONLINE:**

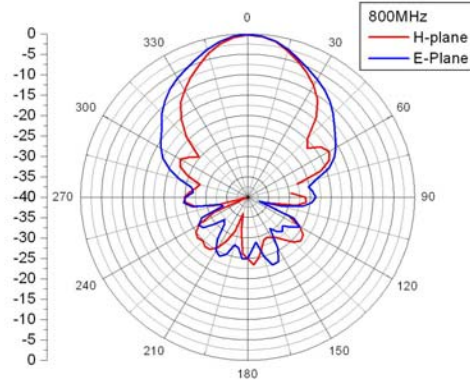
info@ets-lindgren.com  
www.ets-lindgren.com



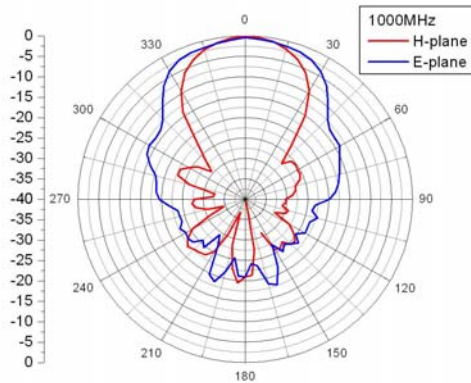
**Model 3106B (400 MHz)**



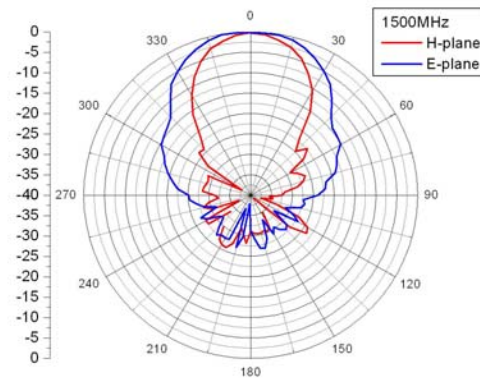
**Model 3106B (800 MHz)**



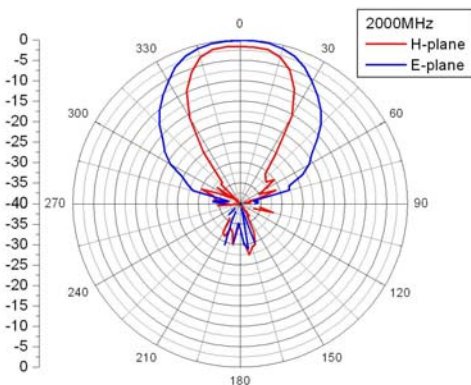
**Model 3106B (1 GHz)**



**Model 3106B (1.5 GHz)**



**Model 3106B (2.0 GHz)**



**Model 3106B (2.5 GHz)**

