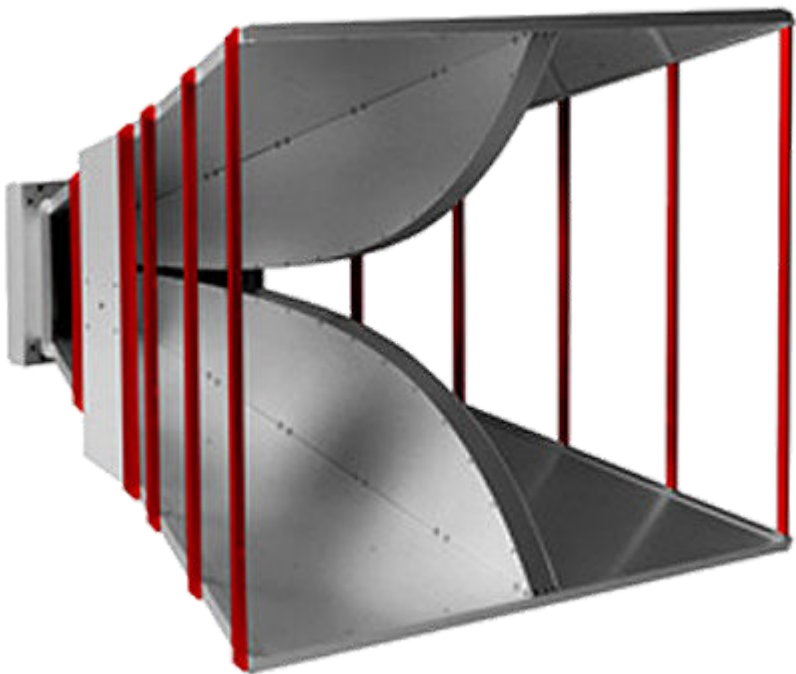


# 3106B Double-Ridged Guide Antenna



ETS-Lindgren's 3106B Double-Ridged Guide Antenna is especially effective for generating high electromagnetic fields with relatively low power input.

The antenna is also useful for receiving low-level signals where high gain characteristics are needed. Although large in size, 93.3 cm (36.7 in), this antenna weighs only 11.8 kg (26 lb). A Type N female connector is used for increased power handling and optional RF connectors are available.

The 3106B Double-Ridged Guide Antenna has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 1000 W peak and 800 W continuously. Constructed of lightweight corrosion-resistant aluminum, our 3106B Double-Ridged Guide Antenna will provide years of trouble-free indoor and outdoor service.

## Key Features

- 200 MHz to 2.5 GHz Frequency Range
- Two Year Warranty
- Uniform Gain
- Low VSWR
- Individually Calibrated
- Integral Mounting

## Specifications

### Physical Specifications

Height: 72.9 cm (28.70 in)  
Length: 97.8 cm (38.50 in)  
Width: 93.3 cm (36.7 in)  
Weight : 11.8 kg (26.0 lb)

### Electrical Specifications

Frequency Minimum: 200 MHz  
Frequency Maximum: 2.5 GHz  
Connectors: Type N Female (Standard)  
Impedance (Nominal): 50  
VSWR: <1.6:1  
Pattern Type: Directional  
Polarization: Linear

| Model                                  | Power Rating     | Power Rating |
|--|------------------|--------------|
| 3106B (Standard with Type N Connector) | <300 MHz         | 1.0 kW       |
|  | 300 MHz to 1 GHz | 500 W        |
|  | 1 GHz to 2.5 GHz | 300 W        |
| 3106B-7/16 DIN                         | <300 MHz         | 1.6 kW       |
|  | 300 MHz to 1 GHz | 800 W        |
|  | 1 GHz to 2.5 GHz | 500 W        |

|          |                  |        |
|----------|------------------|--------|
| 3106B-SC | <300 MHz         | 1.0 kW |
|          | 300 MHz to 1 GHz | 500 W  |
|          | 1 GHz to 2.5 GHz | 300 W  |

Product Options

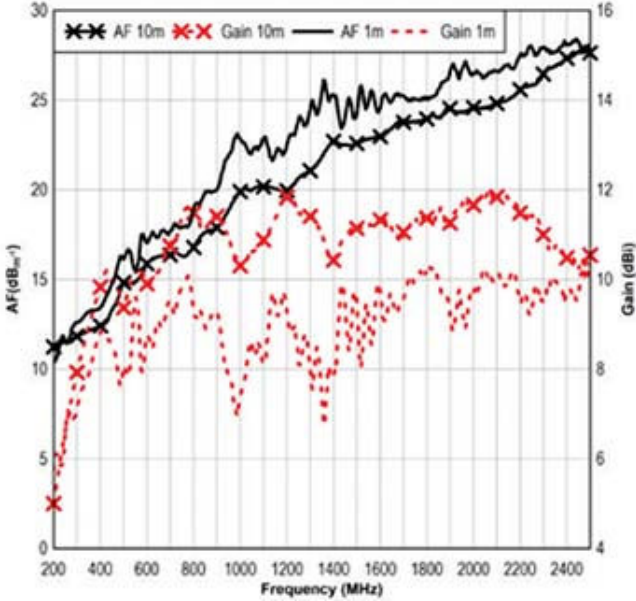
ETS-Lindgren Offers Several Non-metallic, Non-reflective Tripods

Product Configuration

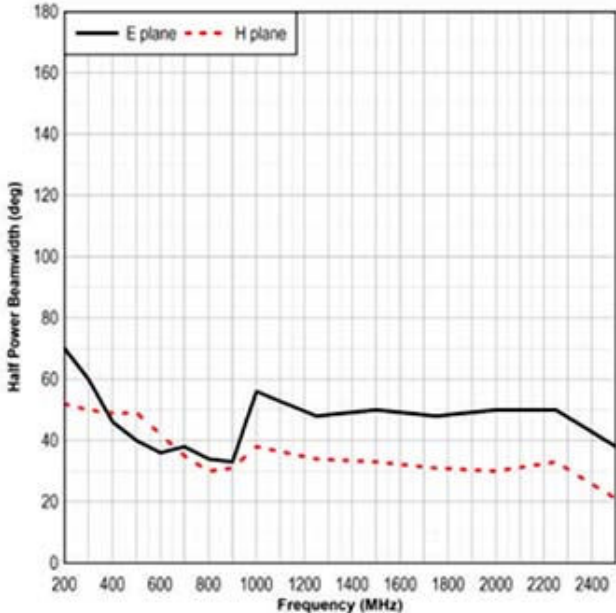
- Mounting Bracket Drilled Accepts an ETS-Lindgren or Other Tripod Mount with Standard 1/4 in x 20 Threads
- Individually Calibrated at 1 m per SAE ARP 958.
- Actual Factors and a Signed Certificate of Calibration Conformance Provided
- Manual

Charts

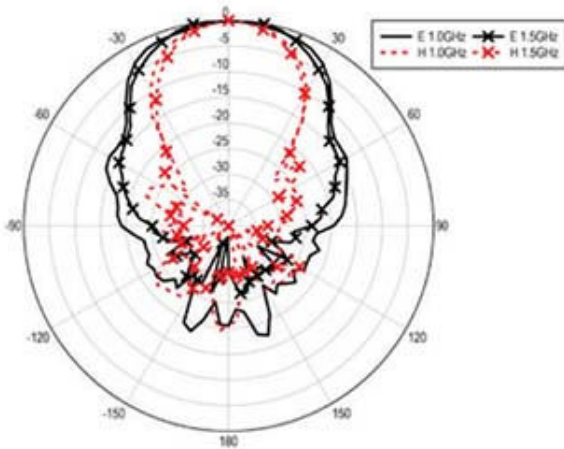
3106B Double-Ridged Guide Antenna  
AF and Gain



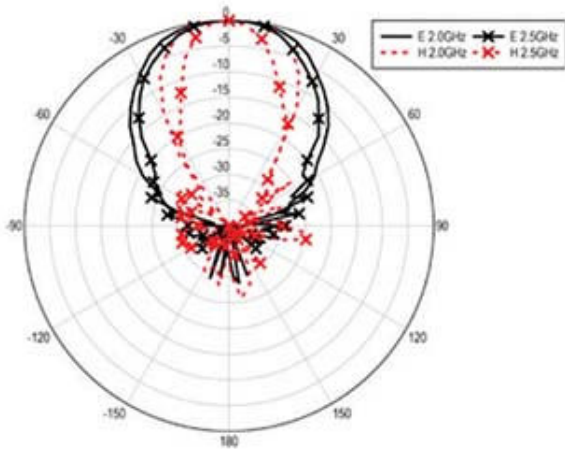
3106B Double-Ridged Guide Antenna  
Half Power Beamwidth



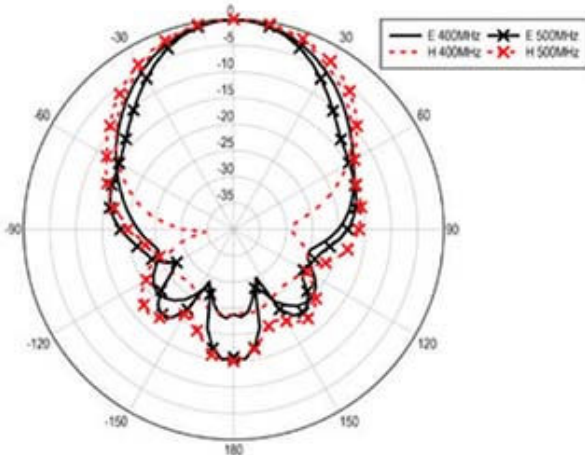
3106B Double-Ridged Guide Antenna  
Measured Patterns  
E and H Plane  
1000 MHz and 1500 MHz



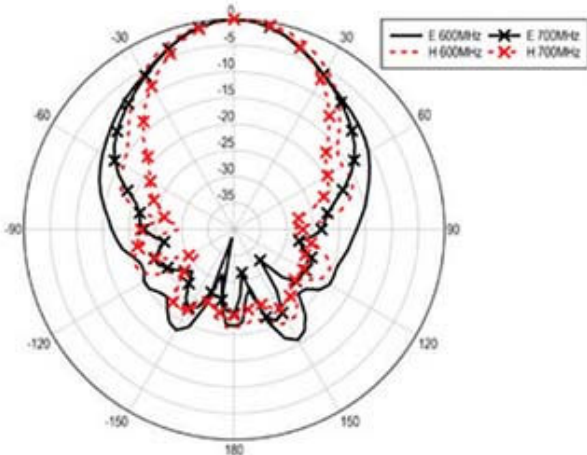
3106B Double-Ridged Guide Antenna  
Measured Patterns  
E and H Plane  
2000 MHz and 2500 MHz



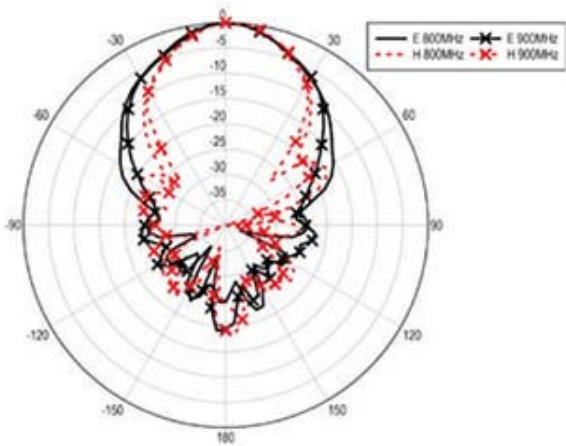
3106B Double-Ridged Guide Antenna  
Measured Patterns  
E and H Plane  
400 MHz and 500 MHz



3106B Double-Ridged Guide Antenna  
Measured Patterns  
E and H Plane  
600 MHz and 700 MHz



3106B Double-Ridged  
Guide Antenna  
Measured Patterns  
E and H Plane  
800 MHz and 900 MHz



3106B Double-Ridged  
Guide Antenna  
VSWR

