

3164-08 Open Boundary Quad-Ridged Horn



ETS-Lindgren's 3164-08 Open Boundary Quad-Ridged Horn's open boundary design makes this antenna unique in both appearance and performance. Because of excellent gain and improved VSWR, the 3164-08 replaces former models 3164-04 and 3164-07.

Key Features

- 700 MHz to 10 GHz Frequency Range
- Linear or Circular Polarization (With Hybrid)
- Low VSWR with Improved Gain
- Compact Design
- Flexible Mounting Schemes
 - Standard Tripod Mounting Flange
 - Optional Wall Mounting Plate

Product Features

Open Boundary Design

Numerically modeled, the model 3164s open boundary design is similar to two double-ridged waveguide antennas placed orthogonally to each other.

Ideal for Lower Frequency Testing

The model 3164-08 is ideal for applications including UWB wireless testing (3 GHz to 10 GHz) and lower frequency testing (700 MHz to 3 GHz) for GSM, PCS, Wi-Fi, etc. applications. The 3164-08s compact design makes it ideal for use as both a tripod mounted or wall mounted antenna.

Modular Mounting

Should a wall mount be desired, an optional wall mounting plate can be ordered, and helps to maintain shielding integrity in the chamber.

Specifications

Physical Specifications

Height: 36.07 cm (14.20 in)

Depth: 36.58 cm (14.40 in)

Width: 36.07 cm (14.20 in)

Weight: 5.1 kg (11.24 lb)

Electrical Specifications

Frequency Minimum: 700 MHz

Frequency Maximum: 10 GHz

Cross Polarization Isolation: >20 dB

Impedance: 50

Input Power: 300 W at 700 MHz; 100 W at 10 GHz

Pattern Type: Directional

Polarization: Dual Linear

Product Options

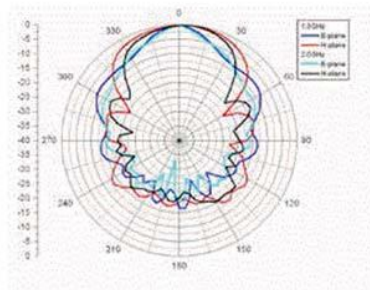
- Custom Cases

Product Configuration

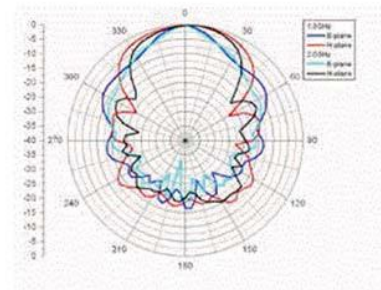
- Antenna Including Mounting Flange
- Individually calibrated per ANSI C63.5
- Actual individual calibration factors and signed Certificate of Calibration Conformance
- Manual

Charts

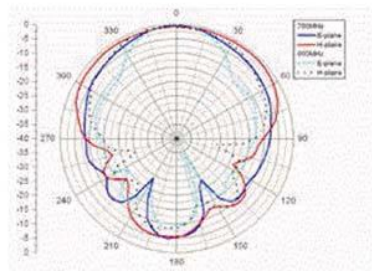
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
1.5 GHz to 2.0 GHz



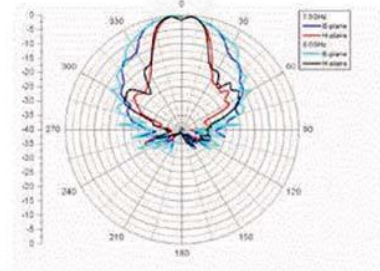
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
3.5 GHz to 4.0 GHz



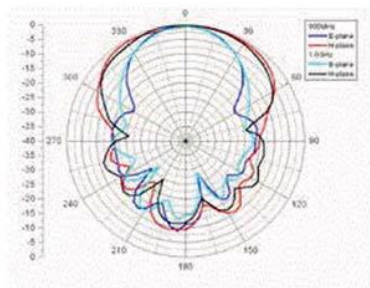
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
700 MHz to 800 MHz



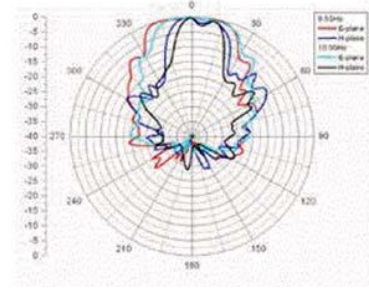
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
7.5 GHz to 8.0 GHz



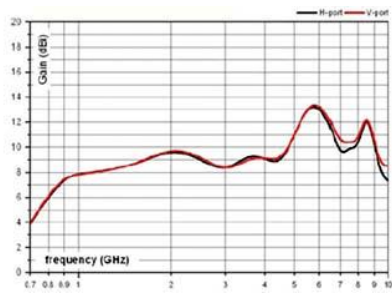
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
900 MHz to 1 GHz



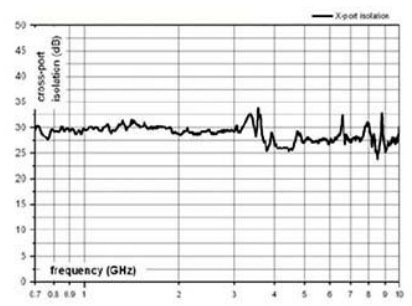
Model 3164-08
Open Boundary Quad-Ridged Horn
Typical Radiation Patterns
9.5 GHz to 10.0 GHz



Model 3164-08
Open Boundary Quad-Ridged Horn
Gain



Model 3164-08
Open Boundary Quad-Ridged Horn
Cross Port Isolation



Model 3164-08
Open Boundary Quad-Ridged Horn
VSWR

