# 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.



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

# **Features**

### Open Boundary Design

Numerically modeled, the model 3164's 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 3164-08's 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

# **Electrical Specifications**

Frequency Minimum: 700 MHz Frequency Maximum: 10 GHz Cross Polarization Isolation: >20 dB

Impedance: 50 Ω

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

Pattern Type: Directional Polarization: Dual Linear

# **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)

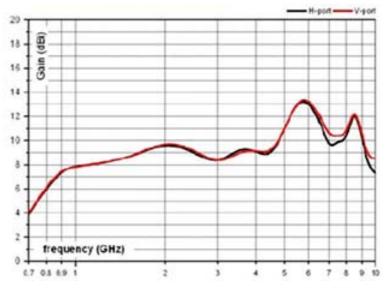
### Other Specifications

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

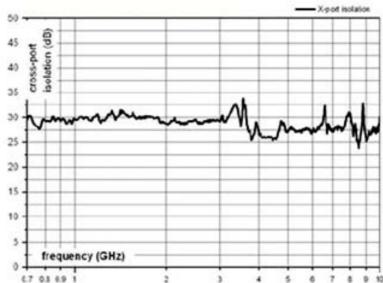


### **Product Charts**

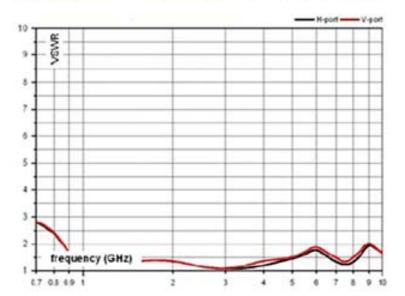
Model 3164-08 Open Boundary Quad-Ridged Horn Gain



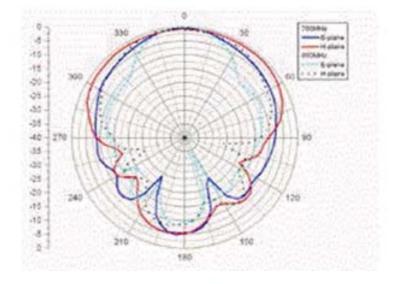
Model 3164-08 Open Boundary Quad-Ridged Horn Cross Port Isolation



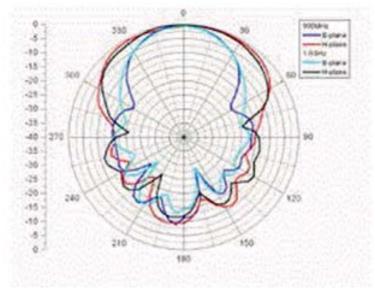
Model 3164-08 Open Boundary Quad-Ridged Horn VSWR



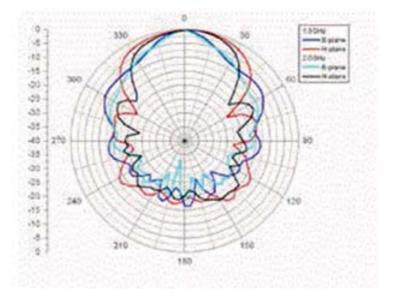
Model 3164-08 Open Boundary Quad-Ridged Horn Typical Radiation Patterns 700 MHz to 800 MHz



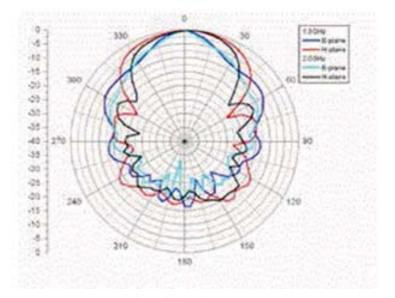
Model 3164-08 Open Boundary Quad-Ridged Horn Typical Radiation Patterns 900 MHz to 1 GHz



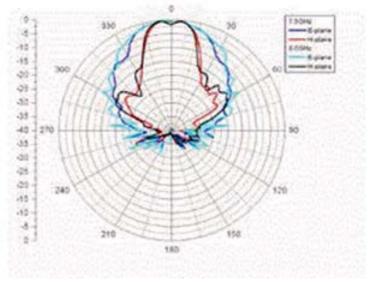
Model 3164-08 Open Boundary Quad-Ridged Horn Typical Radiation Patterns 1.5 GHz to 2.0 GHz



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 7.5 GHz to 8.0 GHz



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

