

3164-10 OPEN BOUNDARY QUAD-RIDGED HORN

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ETS-Lindgren's Model 3164-10 Open Boundary Quad-ridged Horn Antenna's design makes this antenna unique in both appearance and performance. Designed to measure wireless devices for Over-The-Air (OTA) performance, this unit features excellent gain, with low VSWR. Numerically modeled, the 3164's open boundary design is similar to two double-ridged waveguide antennas, placed orthogonally to each other, providing the ability to measure the two principal components of a radiating electric field.

Key Features

- 400 MHz to 10 GHz Frequency Range
- Excellent Gain Over Entire Range
- Dual Polarization
- Compact, Lightweight Design

Features

Frequency Range and Gain

With a frequency range of 400 MHz to 10 GHz, the model 3164-10 covers all wireless frequency bands, including cell phone, Wi-Fi, WiMAX and GPS bands. Additional applications include UWB wireless testing (3 GHz to 10 GHz) and lower frequency testing (400 MHz to 3 GHz) for GSM, PCS, Wi-Fi, WiMAX, etc. applications. This antenna has excellent gain characteristics across the frequency range.

Dual Linear Polarization

The two-input design allows for the generation (or sensing) of two orthogonal linear polarized signals. With the incorporation of an optional 90° hybrid, this antenna can also generate (or sense) circularly polarized signals.

Compact, Lightweight Design

The 3164-10's compact, lightweight design makes it ideal for use as both a tripod or wall mounted antenna.

Specifications

Electrical Specifications

Frequency Minimum: 400 MHz

Frequency Maximum: 10 GHz

VSWR Ratio (AVG): 5:1 Maximum; 1.75:1 Average

Maximum Continuous Power: 100 watts @ 400 MHz; 20 watts @ 10 GHz

Impedance (Nominal): 50 Ω

Connectors: (2) Type SMA Female

Pattern Type: Directional

Polarization: Dual Linear

Physical Specifications

Aperture Height: 36.07 cm (14.20 in)

Aperture Width: 36.07 cm (14.20 in)

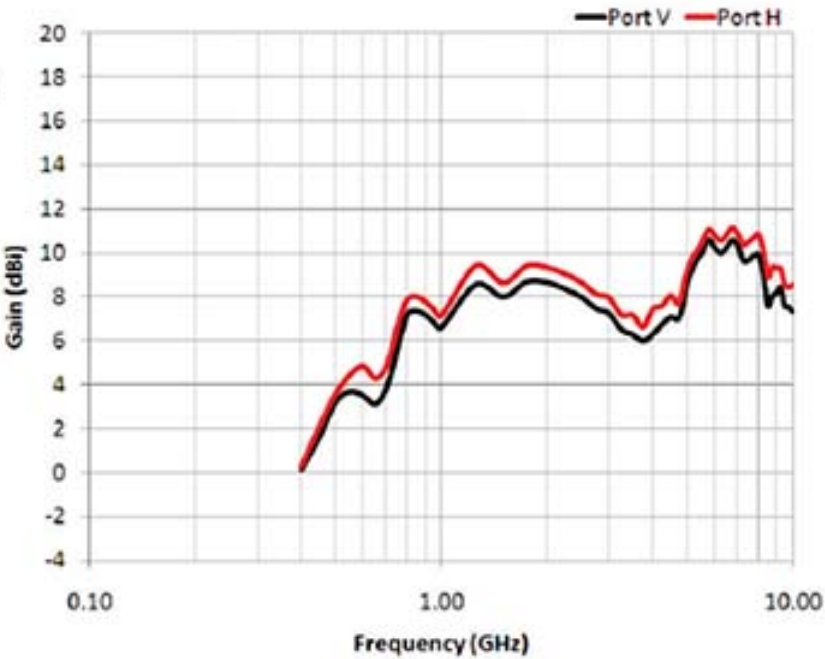
Length: 36.58 cm (14.40 in)

Other Specifications

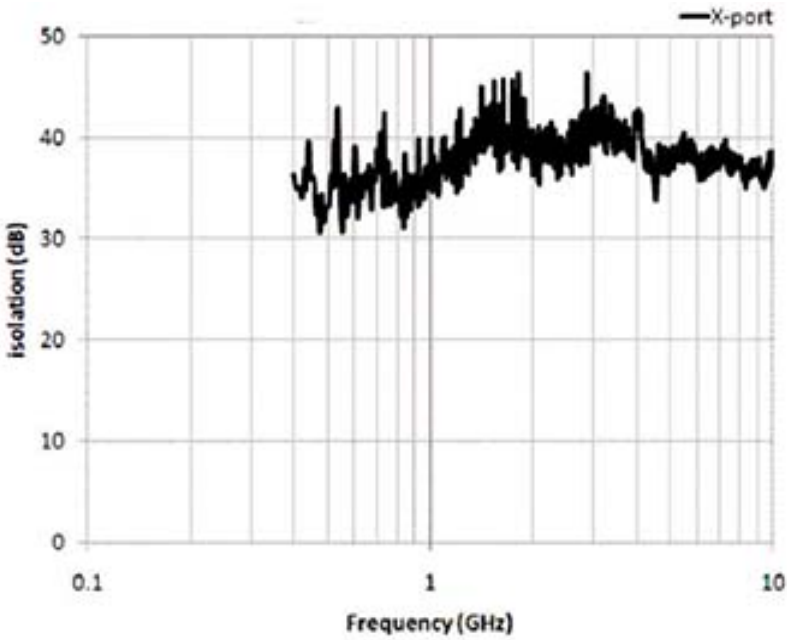
- Antenna Including Mounting Flange and Tripod Mount
- Individually calibrated per ANSI C63.5
- Actual Antenna Factors, Gain Uncertainty Values and a Signed Certificate of Calibration Conformance
- Manual

Product Charts

Model 3164-10
Open Boundary Quad-Ridged Horn
Gain



Model 3164-10
Open Boundary Quad-Ridged Horn
Cross Port Isolation



Model 3164-10
Open Boundary Quad-Ridged Horn
VSWR

