

Wireless Antennas
**Open Boundary
Quad-Ridged
Horn Antenna**

Model 3164-10

FEATURES:

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



ETS-Lindgren's Model 3164-10 Open Boundary Quad-Ridged Horn

THE MODEL 3164-10 OPEN BOUNDARY QUAD-RIDGED HORN 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 Model 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.

FEATURES

Frequency Range

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.

Excellent Gain

The Model 3164-10 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.

STANDARD CONFIGURATION

- Antenna Including Mounting Flange and Tripod Mount
- Individually Calibrated at 3 m per ANSI C63.5. Actual Antenna Factors, Gain Uncertainty Values and a Signed Certificate of Calibration Conformance Included in Manual

OPTIONS

- Wall Mounting Plate and Feed-through Penetrations

* Contact ETS-Lindgren Sales for recommended manufacturers.

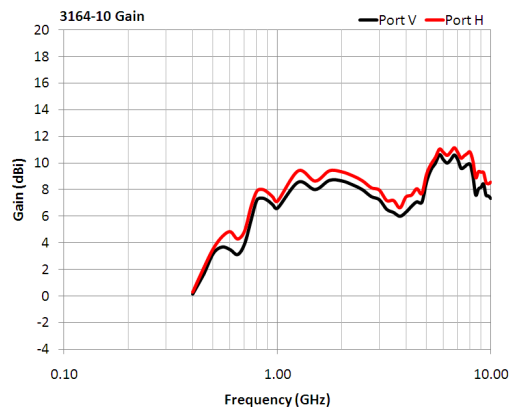
Electrical Specifications

MODEL	FREQUENCY RANGE	VSWR RATIO (AVG)	MAXIMUM CONTINUOUS POWER	IMPEDANCE (NOMINAL)	CONNECTORS
3164-10	400 MHz - 10 GHz	5:1 maximum 1.75:1 average	100 watts @ 400 MHz 20 watts @ 10 GHz	50 Ω	(2) Type SMA Female

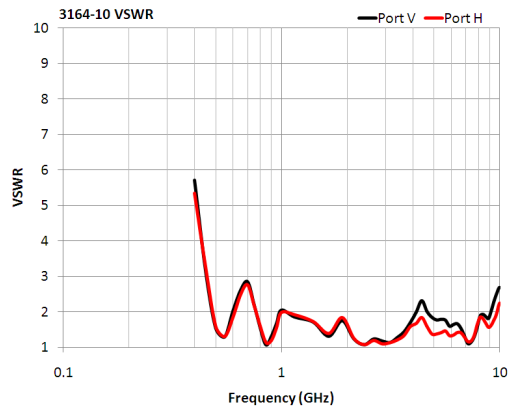
Physical Specifications

MODEL	APERTURE HEIGHT	APERTURE WIDTH	LENGTH	WEIGHT
3164-10	36.07 cm 14.20 in	36.07 cm 14.20 in	36.58 cm 14.40 in	3.4 kg 7.4 lbs

Gain Typical Performance



VSWR Typical Performance



Cross Port Isolation Typical Performance

