

3164-05 OPEN BOUNDARY QUAD-RIDGED HORN

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ETS-Lindgren's Model 3164-05 Open Boundary Quad-ridged Horn has an open boundary design, making this antenna unique in appearance and performance. Numerically modeled, the model 3164-05's open boundary design is similar to two Vivaldi PCB antennas placed orthogonally to each other. The antenna's surprisingly compact size offers improved pattern and gain when compared with enclosed quad-ridged horns of similar dimensions. The compact size also means there is only small shift on the Model 3164's phase center as frequency changes.

The model 3164-05 offers exceptional bandwidth. While the frequency band for optimum performance is 2 GHz to 18 GHz, the antenna is usable from 1.5 GHz. Two orthogonally placed input feeds allow this antenna to generate both linear and circular polarized measurements across the entire frequency band.

Key Features

- 2 GHz to 18 GHz Frequency Range
- Linear or Circular Polarization (With Hybrid)
- Low Side Lobes Compact Design
- Flat Gain For Upper 2/3 of Range
- Flexible Mounting Schemes
 - Flange for Wall Mounting
 - Bracket for Tripod Mounting

Specifications

Electrical Specifications

Frequency Minimum: 2 GHz
Frequency Maximum: 18 GHz
Connectors: SMA Female
Cross Polarization Isolation: >24 dB
Impedance (Nominal): 50 Ω
Maximum Power: 25 W
Pattern Type: Directional
Polarization: Dual Linear

Physical Specifications

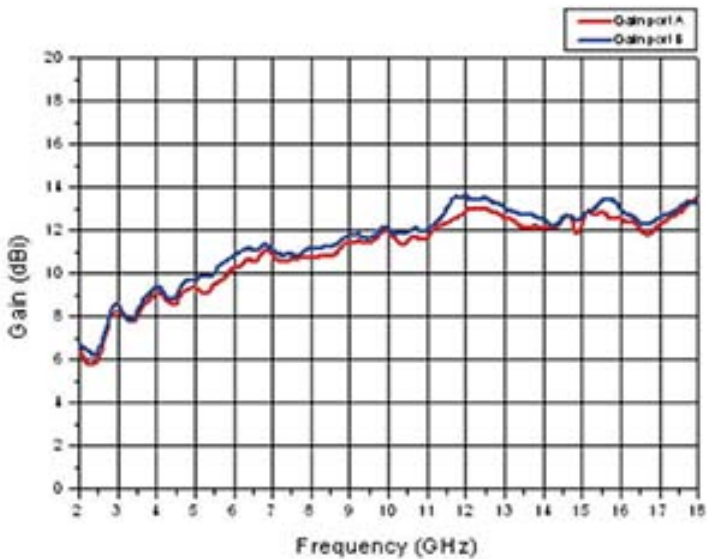
Height: 17.1 cm (6.73 in)
Length: 18.4 cm (7.24 in)
Width: 17.1 cm (6.73 in)

Other Specifications

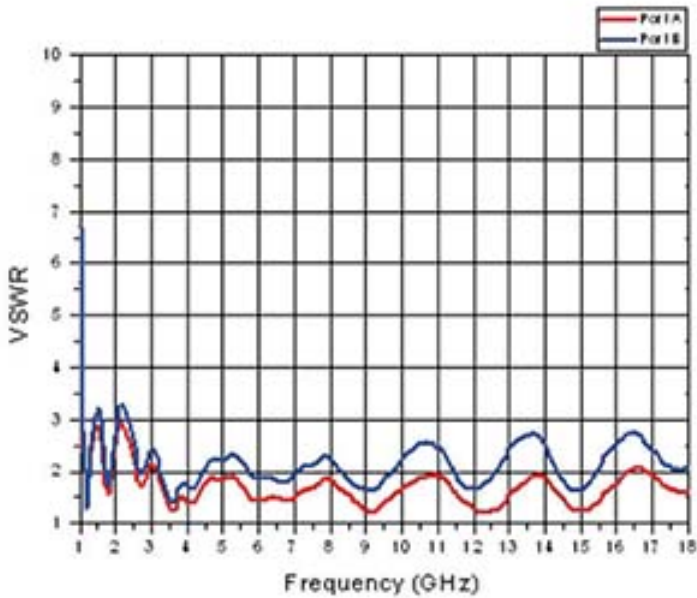
- Antenna
- Individually calibrated per ANSI C63.5
- Conformance included in Manual.
- Manual

Product Charts

Model 3164-05
Open Boundary Quad-Ridged Horn
Gain (measured per SAE 958 Rev. C)



Model 3164-05
Open Boundary Quad-Ridged Horn
VSWR for Both Input Ports



Model 3164-05
Open Boundary Quad-Ridged Horn
Half-Power Beamwidth

