

ANTENNA MODEL 3164-05



MODEL 3164-05

- 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

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 3164s 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.

Technical Specifications

Electrical	
Frequency Minimum	2 GHz
Frequency Maximum	18 GHz
Impedance (Nominal)	50
Maximum Continuous Power	10 W
Cross Polarization Isolation	>24 dB
Pattern Type	Directional
Polarization	Dual Linear
Max VSWR	<3.25:1
Connectors	SMA Female
Physical	
Height	17.1 cm (6.73 in)
Width	17.1 cm (6.73 in)
Depth	18.6 cm (7.3 in)
Weight	0.71 kg (1.57 lb)