

*Wireless Antennas*  
**Open Boundary  
Quadridge Horn**

**Models 3164-05**

**Features:**

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



*ETS-Lindgren's Model 3164-05 Quadridge Horn*

The Model 3164-05 Open Boundary Quadridge Horn is the newest in a series of quadridge horns from ETS-Lindgren. The “open boundary” design with its absence of side plates makes this antenna unique in both appearance and performance.

Numerically modeled, the Model 3164'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 quadridge 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 has 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.

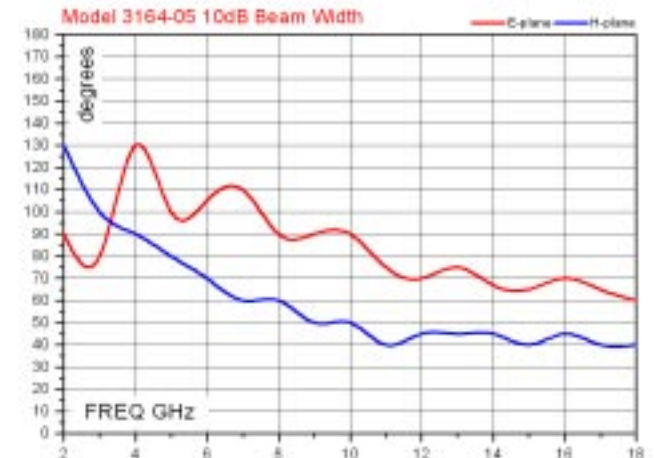
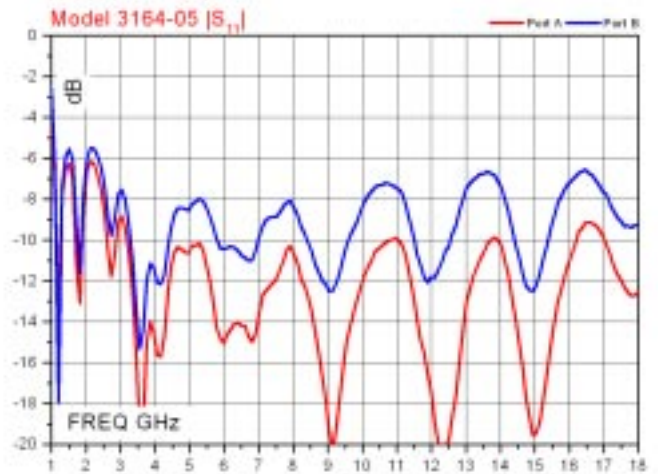
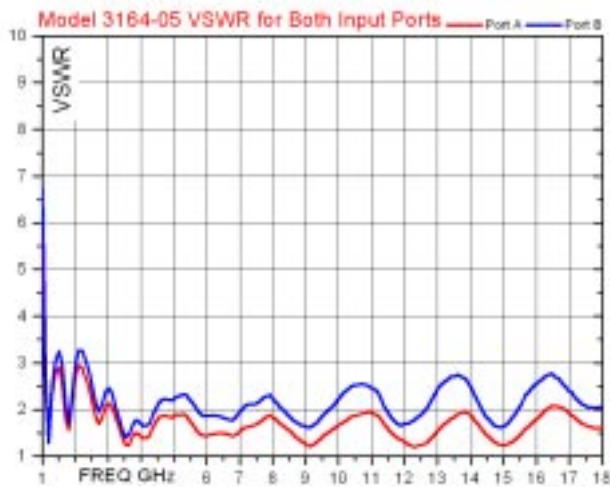
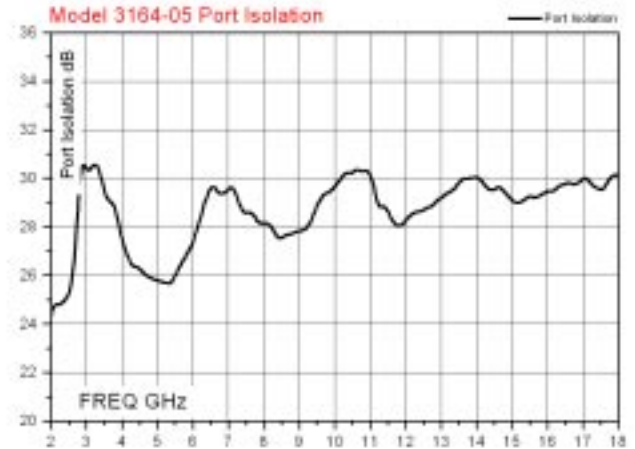
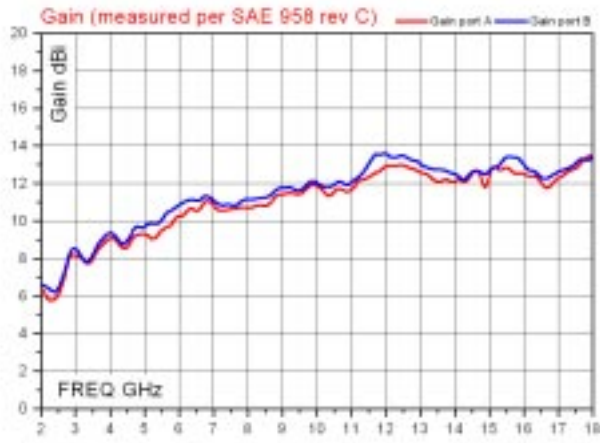
**Electrical Specifications**

MODEL	FREQUENCY RANGE	CROSS-POLARIZATION ISOLATION	IMPEDENCE (NORMAL)	CONNECTOR
3164-05	2 GH - 18 GHz	>24 dB	50 Ω	SMA Female (2)

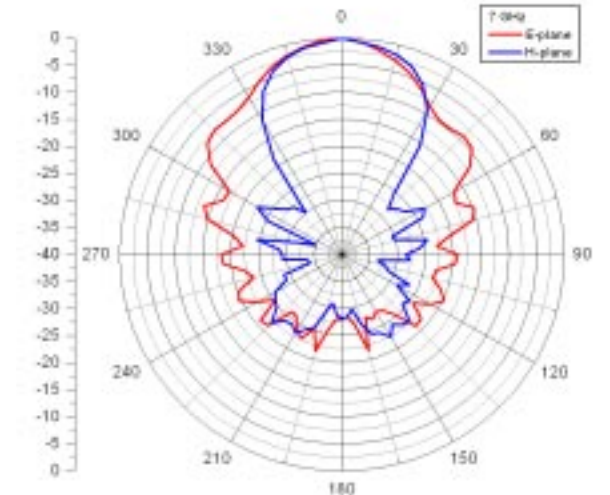
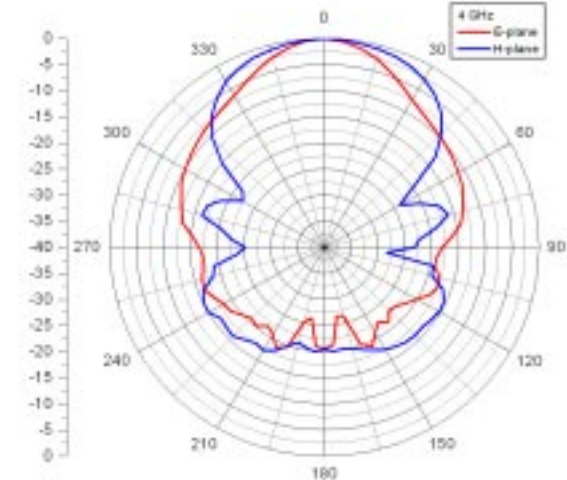
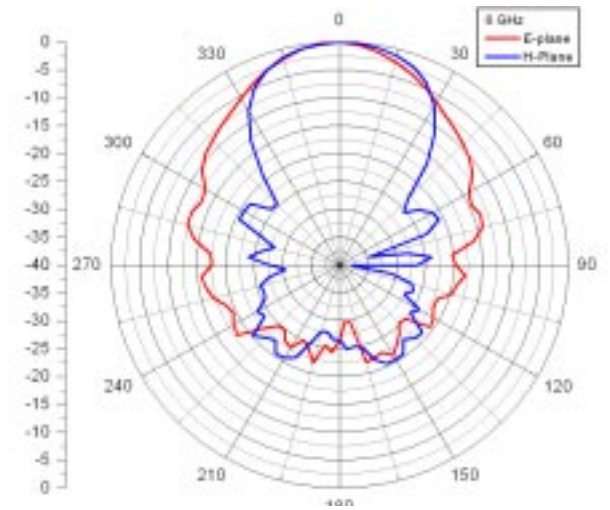
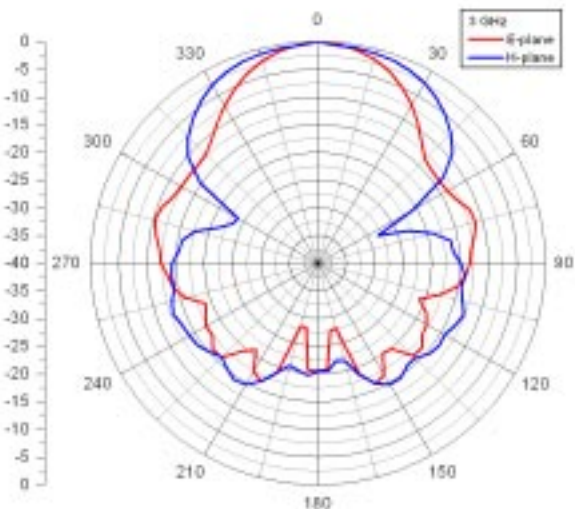
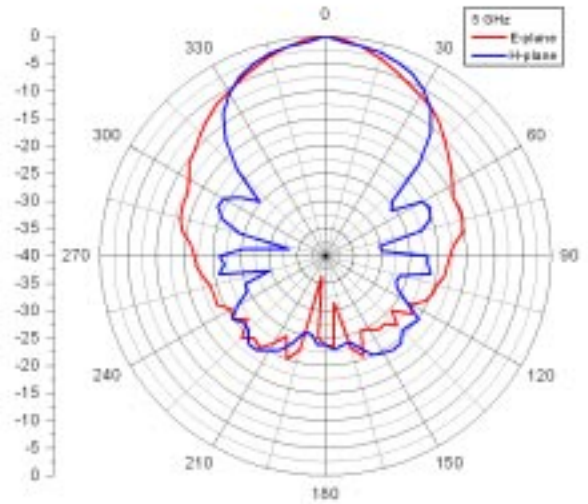
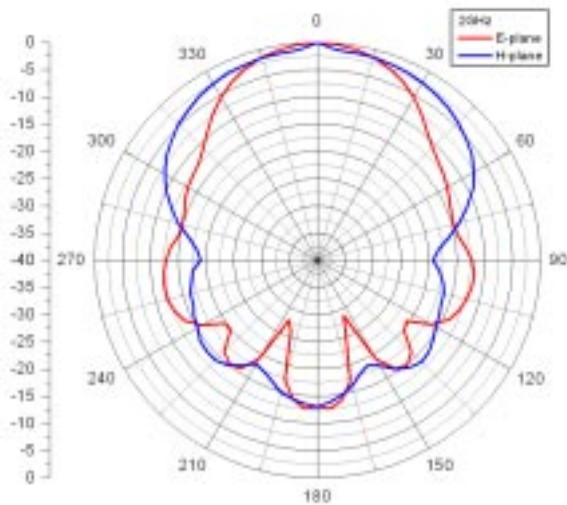
**Physical Specifications**

MODEL	LENGTH (OVERALL)	WIDTH (APERTURE)	HEIGHT (APERTURE)	WEIGHT
3164-05	18.4 cm 7.3 in	17.1 cm 6.7 in	17.1 cm 6.7 in	0.71 kg 1.56 lb

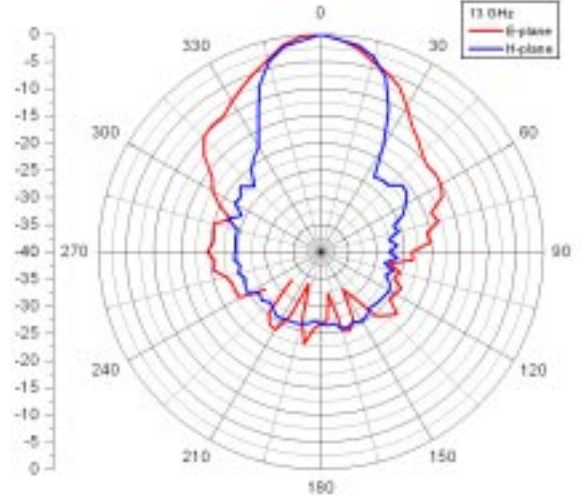
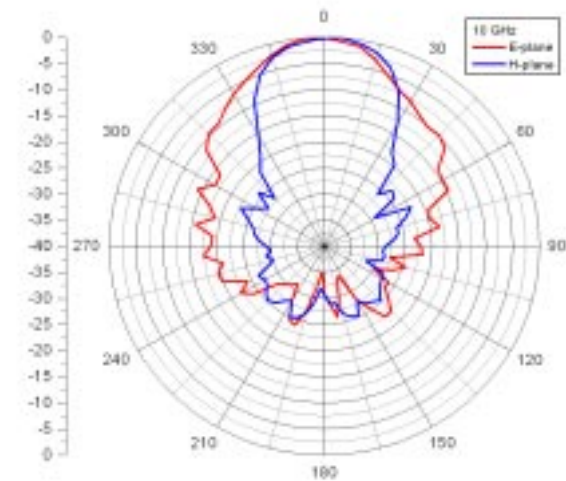
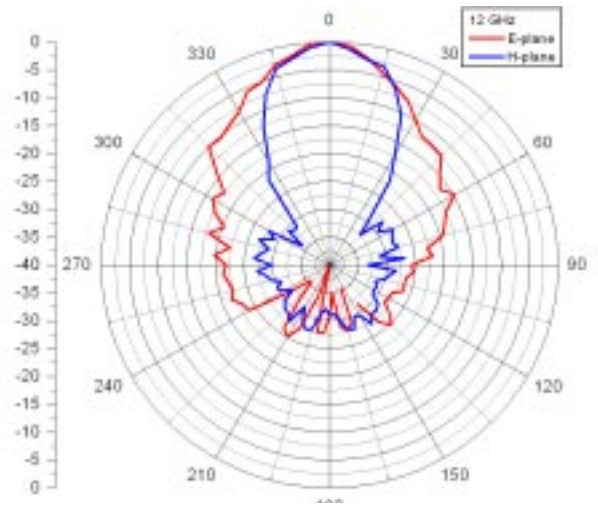
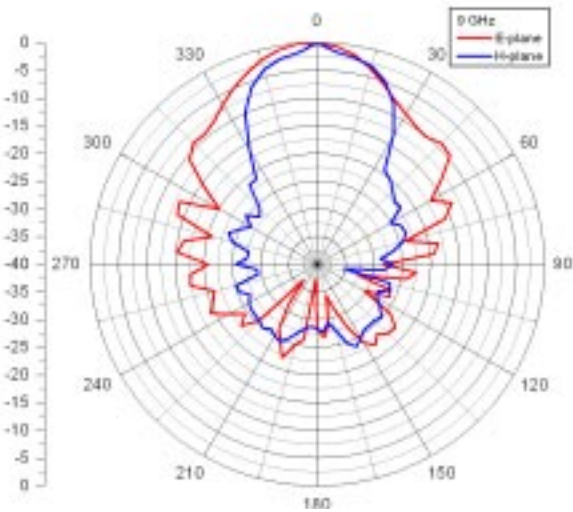
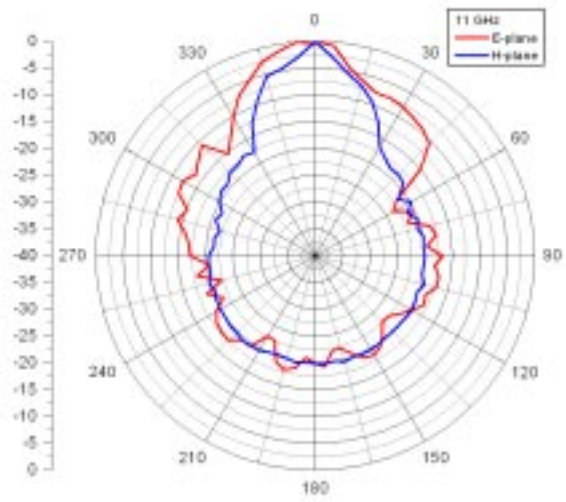
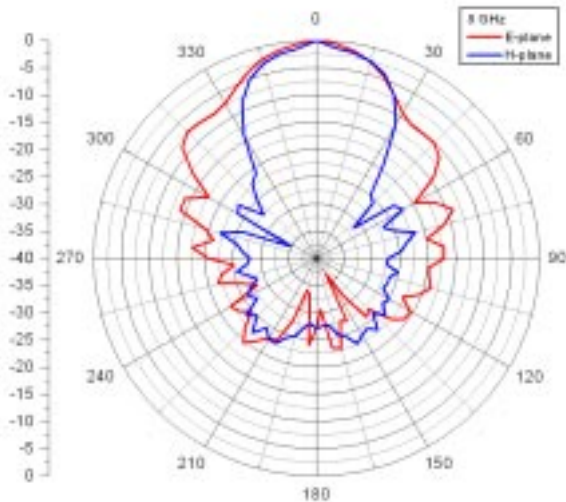
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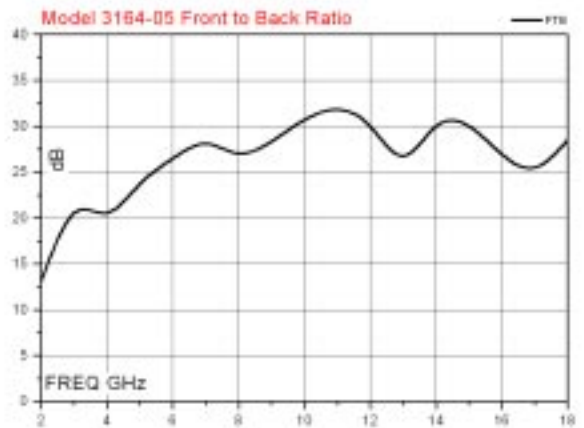
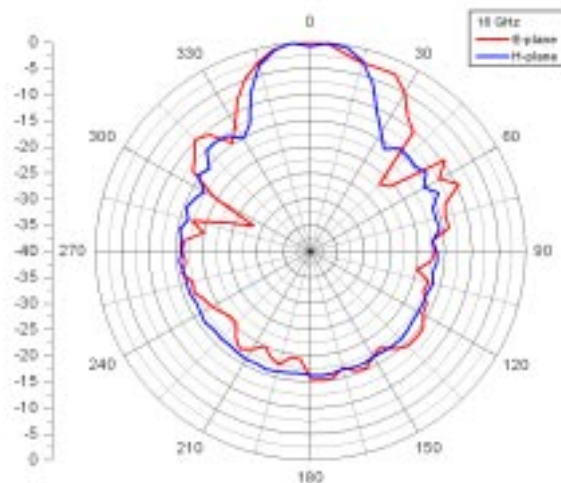
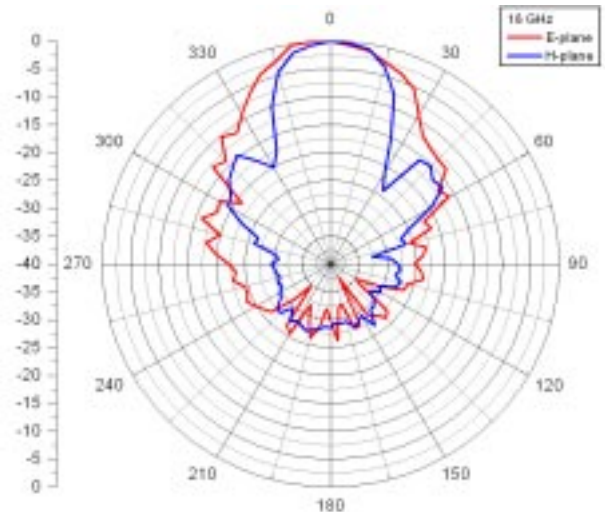
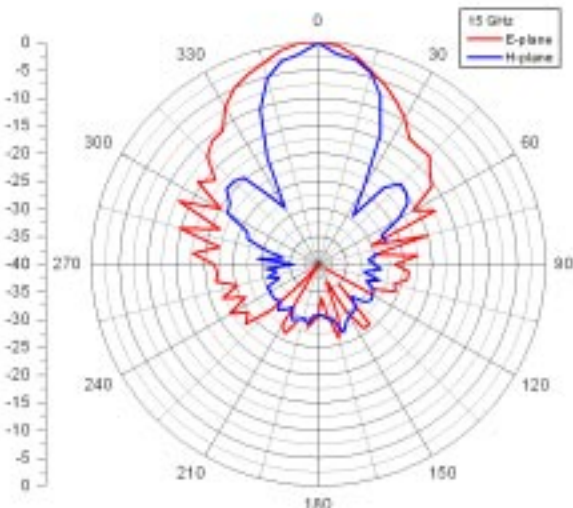
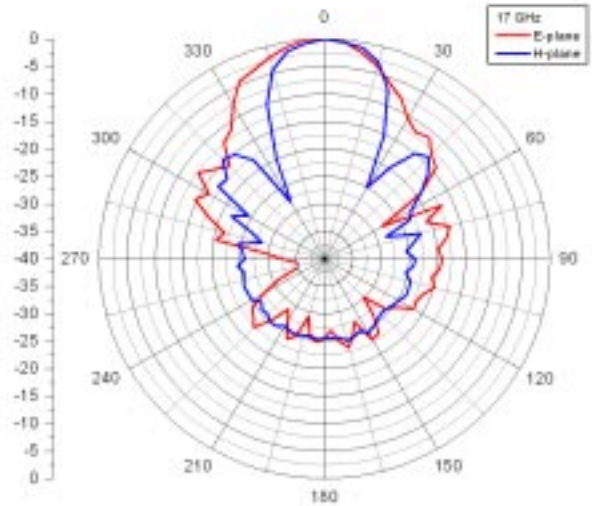
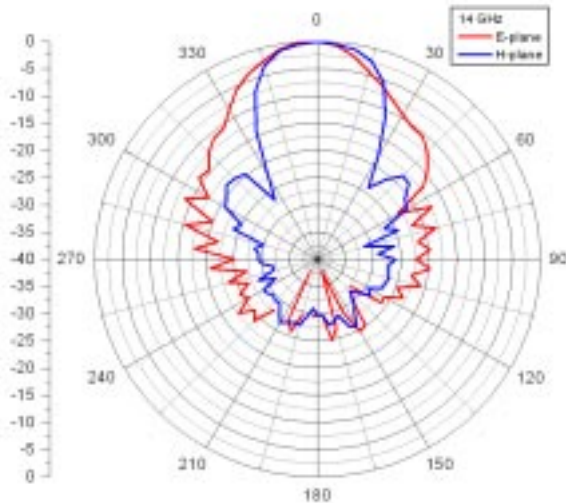
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