

BOA48006

4.8–5.0 GHz Omnidirectional Base Station Antenna

Rajant BOA48006

The 4.8–5.0 GHz omnidirectional base station antenna consists of a linear array, encapsulated in a heavy duty fiberglass radome with a thick walled mounting base for reliable long term use. The rugged design allows the antenna to withstand harsh environments and is ideal for military and first responder band wireless applications. The antenna is DC grounded for ESD protection of radio components.

BOA48006 Benefits

- 6 dBi gain
- Type N (male or female) connector.
- Fully sealed IP67 (6: Dust-tight, 7: Waterproof) design.
- UV stable, black fiberglass radome (0.64” diameter).
- Black chrome plated mounting base.
- DC grounded design.



75-100139-001/BOA48006NM-RJT
(left)

07-100003-001/BAM1013
mount (below)



TECHNICAL DATA	
Maximum Power	250 Watt
Nominal Impedance	50 Ohm
VSWR	< 1.5:1
Radome Material	Pultruded fiberglass
ESD Protection	DC grounded
Rated Wind	150 mph
Connector	Type N (male or female)
Mounting Hardware	07-100003-001/BAM1013 included with the Type N male connector option

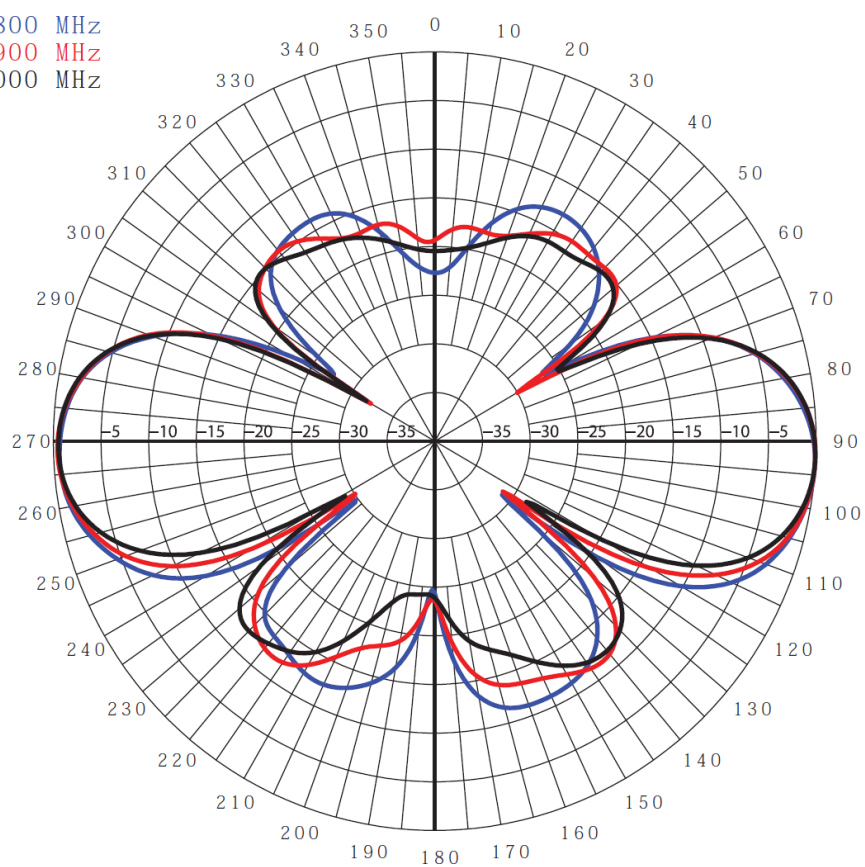
RF/ELECTRICAL SPECIFICATIONS						
Rajant Part Number	Model	Frequency Range	Nominal Gain	Return Loss	E-Plane Beamwidth	Connector Type
75-100139-001	BOA48006NM-RJT	4.8–5.0 GHz	6 dBi	> 14 dB	28°	N male
75-100140-048	BOA48006NF-RJT	4.8–5.0 GHz	6 dBi	> 14 dB	28°	N female

MECHANICAL SPECIFICATIONS						
Rajant Part Number	Model	Weight	Height	Bending Moment at Rated Wind	Rated Wind Load	Equivalent Flat Plate Area
75-100139-001	BOA48006NM-RJT	3 oz	7.03”	0.56 ft-lbf	1.9 lbf	0.023 ft ²
75-100140-048	BOA48006NF-RJT	3 oz	7.23”	0.56 ft-lbf	1.9 lbf	0.023 ft ²

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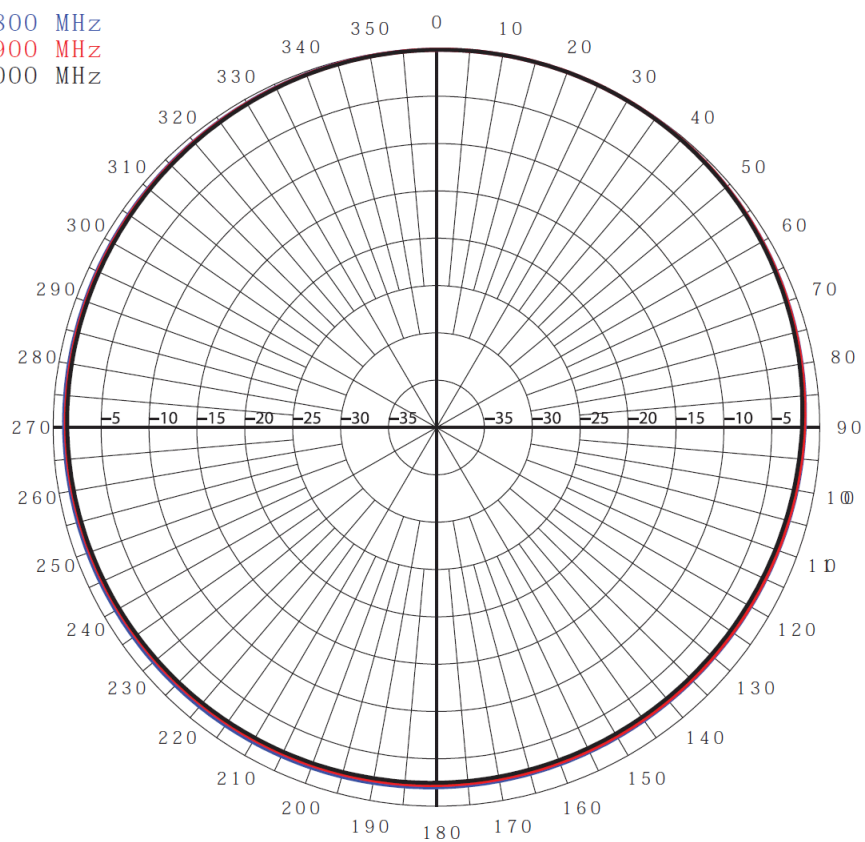
E-Plane Radiation Pattern

4800 MHz
4900 MHz
5000 MHz



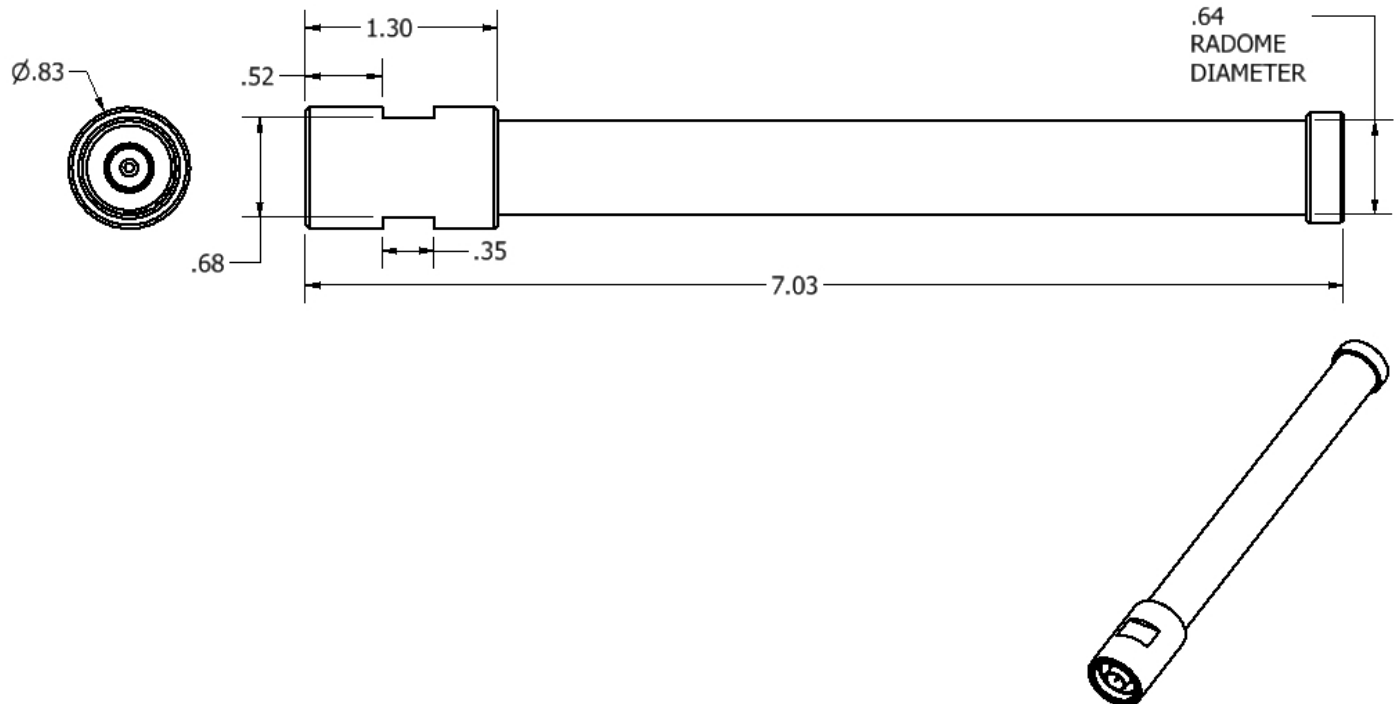
H-Plane Radiation Pattern

4800 MHz
4900 MHz
5000 MHz

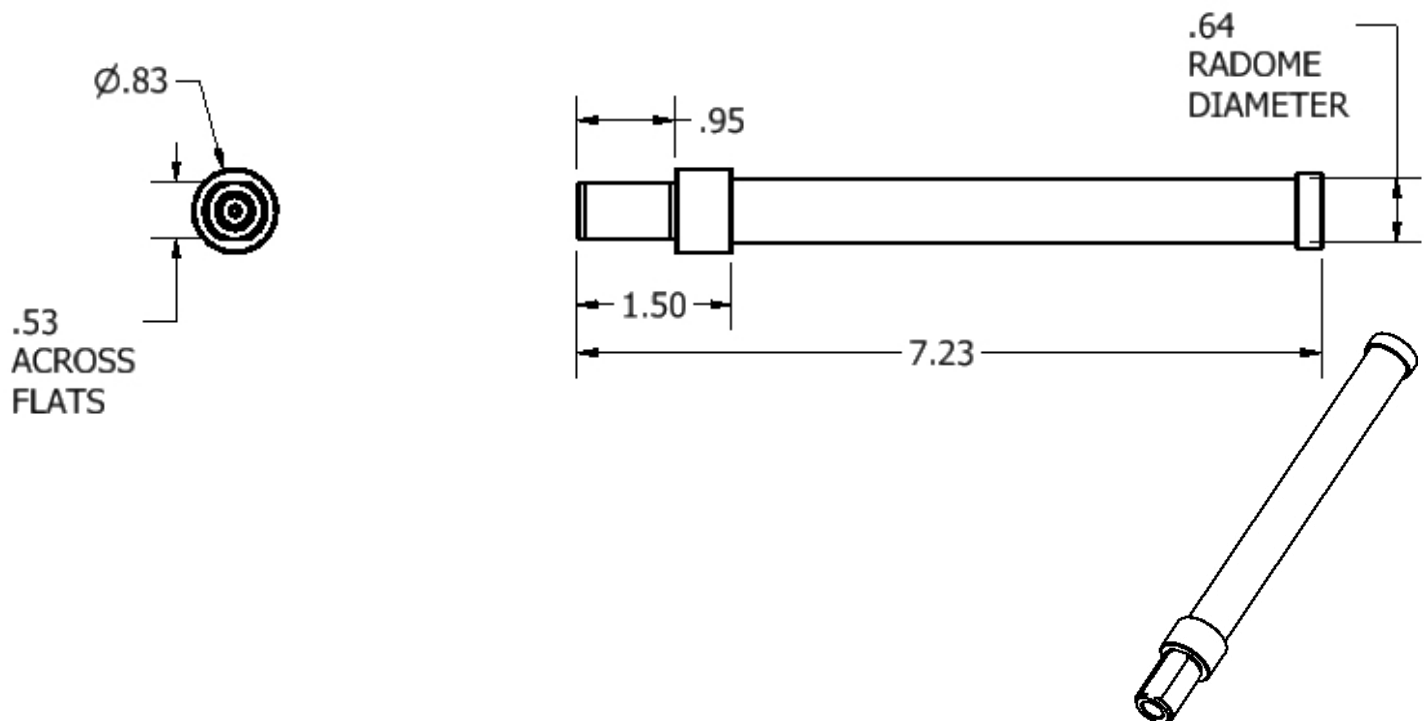


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BOA48006NM Dimensions



BOA48006NF Dimensions



► www.rajant.com

Rajant Data Sheets
WEB QUICK LINK

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