

SY406R-HF7SNF Yagi directional, 10 dBd, radome, HD, 746-806 MHz

- Radome-enclosed for harsh environment application
- Internal elements 360 degree welded for durability and reliability
- 10 dBd gain with low VSWR for high performance
- Vertical or horizontal polarization

The SY406R is a radome-enclosed version of the SY406 available in the 700/800/900 MHz range. The SY406R has been developed to meet the needs for a high gain, broadband, top quality directional antenna for the mission critical applications. Rugged clamps ensure the longevity of the antenna, and the heavy-duty radome not only protects the antenna from the elements but also reduces the negative effect of icing on the radiating patterns when used in cold climates. The SY406R provides 10 dBd gain with a low VSWR. Designed for high performance, versatility and ease of installation, the SY406R will fill a wide variety of requirements. All elements are at DC ground potential for lightning protection.



www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SY406R-HF7SNF	Issue: 1	Dated: 23-03-22

Electrical Specifications

Frequency Range	MHz	746 to 806	
Bandwidth	MHz	60	
Connector		N-Female	*1
Gain (nominal)	dBd (dBi)	10 (12.1)	*2
Input VSWR (max)		1.5:1	
Polarization		vertical or horizontal	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	52.3	*3
Vertical beamwidth (typ)	degrees	45.8	*4
Average Input Power (max)	W	125	
Front-to-back ratio (Typ)	dB	20	*5
Lightning protection		DC ground	

Notes

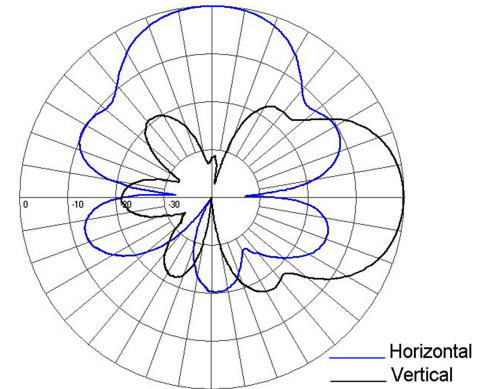
- *1 : 15" pigtail
- *2 : ±1
- *3 : ±10%
- *4 : ±10%
- *5 : ±5.5

Mechanical Specifications

Width	in (mm)	11.5 (292)
Depth	in (mm)	31 (787)
Length/ Height	in (mm)	18 (457)
Radiating element material		aluminum
Radome material		fiberglass
Reflector material		aluminum
Weight	lbs (kg)	18 (8.17)
Mounting Hardware (Included)		Clamp002B
Actual shipping weight	lbs (kg)	20 (9.08)
Shipping dimensions	in (mm)	12x16x37 (305x406x940)

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (1/2" ice)	ft² (m²)	1.4 (0.13)
Rated wind velocity (no ice)	mph (km/h)	150 (242)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SY406R-HF7SNF	Issue: 1	Dated: 23-03-22