

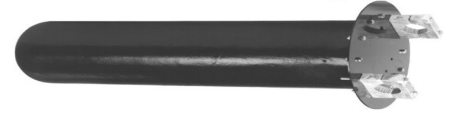
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SY406R

Yagi directional antenna, 10 dBd gain, radome, HD, 806-960 MHz

- Radome-enclosed
- 10 dBd gain with low VSWR

The SY406R is a radome-enclosed version of the SY406 available from 806-960 MHz. The SY406 has been developed to meet the needs for a high gain, broadband, top quality directional antenna in the 806-960 MHz frequency range. The SY406 provides 10 dBd gain with a low VSWR. Designed for high performance, versatility and ease of installation, the SY406 will fill a wide variety of requirements. All elements are DC grounded for lightning protection.



Model	Description	Pattern
SY406R-HF1SNF	10 dBd gain, N (female) connector, 806-870 MHz	Directional
SY406R-HF2SNF	10 dBd gain, N (female) connector, 846-916 MHz	Directional
SY406R-HF3SNF	10 dBd gain, N (female) connector, 895-960 MHz	Directional

www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1223 42 03 03	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		SY406R		Dated: 05-02-10

[SY406R-HF1SNF](#)

[SY406R-HF2SNF](#)

[SY406R-HF3SNF](#)

Electrical Specifications

Frequency Range, MHz	806 to 870	846 to 916	895 to 960
Gain (nominal), dBd (dBi)	10 (12.1)	10 (12.1)	10 (12.1)
Input VSWR (max)	1.5:1	1.5:1	1.5:1
Polarization	vertical or horizontal	vertical or horizontal	vertical or horizontal
Pattern	Directional	Directional	Directional
Horizontal beamwidth, degrees	46	46	46
Vertical beamwidth, degrees	41	41	41
Average Power Input (max), W	125	125	125
Lightning protection	DC ground	DC ground	DC ground
Bandwidth, MHz	64	65	65
Front-to-back ratio (typ), dB	20	20	20

Mechanical Specifications

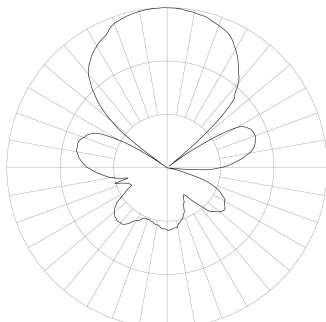
Connector	N (female)	N (female)	N (female)
Length/ Height, in (mm)	26.5 (673)	26.5 (673)	26.5 (673)
Width, in (mm)	11.5 (292)	11.5 (292)	11.5 (292)
Weight, lbs (kg)	20 (9.1)	20 (9.1)	20 (9.1)
Actual Shipping weight, lbs (kg)	20 (9.1)	20 (9.1)	20 (9.1)
Shipping dimensions, in (mm)	16x12x28 (406x305x711)	16x12x28 (406x305x711)	16x12x28 (406x305x711)

Environmental Specifications

Temperature range, °F (°C)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)	-40 to +158 (-40 to +70)
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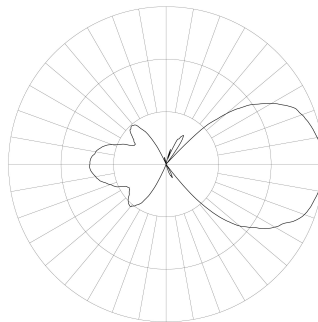
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MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SY406R-HF1SNF



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

SY406R-HF1SNF

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