

SY426R-HF3(XXX) Yagi directional, 10 dBd, radome enclosed, heavy duty, low PIM, 846-966 MHz

- Radome-enclosed yagi for harsh environment
- Innovative hybrid design for compact size and outstanding wind rating
- 10 dBd gain with 1.4:1 VSWR for best performance
- Optional low PIM rating for modern LMR/PMR systems

The SY426R is a radome-enclosed yagi antenna series that excels in harsh weather conditions. It has been developed to meet the needs for a high gain, broadband, top-quality directional antenna in 700, 800, and 900 MHz frequency range. The -150 dBc PIM rating makes this antenna the ideal choice for any modern LMR application, thanks to the innovative patent-pending hybrid design. The antenna also features an outstanding 1.4:1 VSWR for optimal efficiency. The heavy-duty fiberglass radome not only protects the antenna from the elements for long life but also reduces the negative effect of icing on the radiating patterns when used in cold climates. The integrated clamps support pipes in a good range of OD sizes and ensure an easy and secure installation. Designed for high performance, versatility, and reliability, the SY426R is well suited for a wide range of applications. All elements are at DC ground potential for static dissipation.



Product may not be exactly as image.

When ordering, please refer the chart below for the part number and configurations (subject to different list price).

Part number	Frequency (MHz)	Connector	PIM (dBc)
SY426R-HF3SNF	846-966	N(F)	NA
SY426R-HF3SNM	846-966	N(M)	NA
SY426R-HF3L4F	846-966	4.3-10(F)	< -150

Higher power versions are available upon request.

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SY426R-HF3(XXX)	Issue: 1	Dated: 13-02-23

Electrical Specifications

Frequency Range	MHz	846 to 966	
Bandwidth	MHz	120	
Gain (nominal)	dBd (dBi)	10 (12.1)	*1
Input VSWR (max)		1.4:1	
Polarization		vertical or horizontal	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	52	*2
Vertical beamwidth (typ)	degrees	45	*3
Average Input Power (max)	W	150	
Front-to-back ratio (min)	dB	20	
Lightning protection		DC ground	

Notes

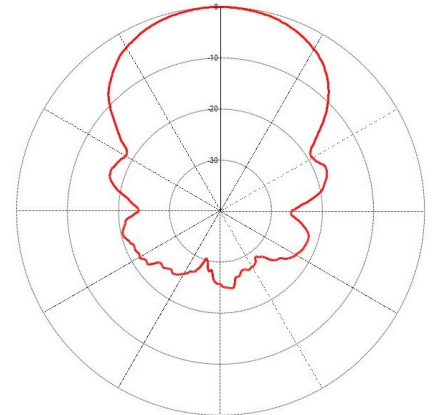
- *1 : ±1dB
- *2 : ±10%
- *3 : ±10%
- *4 : Excluding connector and clamp.
- *5 : Clamps included. 9 lbs w/o clamps.
- *6 : For mounting pipes of Ø1.5-2.88" (Ø38-73mm) O.D.

Mechanical Specifications

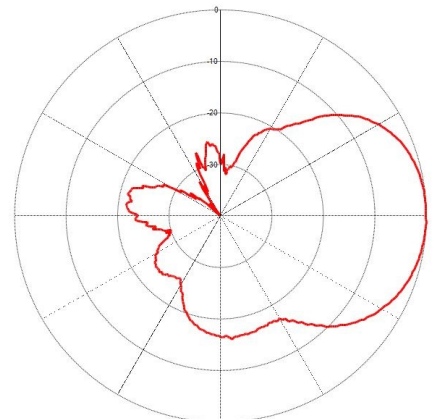
Depth	in (mm)	9.5 (241)	
Length	in (mm)	26 (660)	*4
Height	in (mm)	14 (356)	
Radome material		Fiberglass (UV resistant)	
Weight	lbs (kg)	11 (4.99)	*5
Mounting Hardware (Included)		Yes	*6
Actual shipping weight	lbs (kg)	17 (7.72)	
Shipping dimensions	in (mm)	21x11x31 (533x279x787)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.2 (0.11)
Wind Loading Area (1/2" ice)	ft² (m²)	1.3 (0.12)
Rated wind velocity (no ice)	mph (km/h)	160 (258)
Rated wind velocity (1/2" radial ice)	mph (km/h)	130 (209)
Lateral Thrust (100 mph No Ice)	lbs (N)	48 (213.5)
Torsional moment (100 mph No Ice)	ft-lbs (Nm)	52 (70.2)



Horizontal Pattern



Vertical Pattern

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SY426R-HF3(XXX)	Issue: 1	Dated: 13-02-23