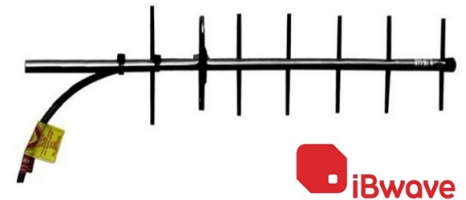


SY407-SF2SN(X)(ABK) Yagi directional antenna, 10 dBd gain, black anodized, 746-869

- Black anodized aluminum for long life
- 360 degree welded elements for durability and reliability
- 10 dBd gain with low VSWR

The SY407 yagi antenna has been developed to meet the need for a high gain, broadband, top quality directional antenna in the 746-869 MHz frequency range. The SY407 provides 10 dBd gain with a low VSWR. Designed for high performance, versatility and ease of installation, the SY407 will fill a wide variety of requirements. All elements are at DC ground potential for lightning protection.



Proud Partner of the iBwave Component Database.

When ordering, please refer to the chart below for the model number. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Connector
SY407-SF2SNM(ABK)	N(m)
SY407-SF2SNF(ABK)	N(f)

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 EPR 018191 Customer Tech Manual 005391		SY407-SF2SN(X)(ABK)	Issue: 4	Dated: 06-01-22 Dated: 19-12-18

Electrical Specifications

Frequency Range	MHz	746 to 869	
Bandwidth	MHz	123	
Connector		N-Male	*1
Gain (nominal)	dBd (dBi)	10 (12.1)	
Input VSWR (max)		1.5:1	
Polarization		vertical or horizontal	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	52	
Vertical beamwidth (typ)	degrees	45	
Average Input Power (max)	W	125	
Front-to-back ratio (Typ)	dB	15	*2
Lightning protection		DC ground	

Notes

- *1 : See the previous page for details.
*2 : 12 dB min.

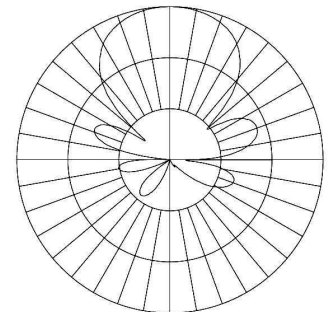
Mechanical Specifications

Width	in (mm)	7.75 (197)
Depth	in (mm)	2.88 (73)
Length/ Height	in (mm)	24 (610)
Base pipe diameter	in (mm)	0.75 (19)
Finish		anodize (black)
Weight	lbs (kg)	2.1 (0.95)
Weight iced (1/2" ice)	lbs (kg)	6.2 (2.81)
Mounting Hardware (Included)		Clamp115
Actual shipping weight	lbs (kg)	8.5 (3.86)

Environmental Specifications

Temperature range	°F (°C)	-40 to +158 (-40 to +70)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.16 (0.01)
Wind Loading Area (1/2" ice)	ft² (m²)	0.52 (0.05)
Rated wind velocity (no ice)	mph (km/h)	155 (250)
Rated wind velocity (1/2" radial ice)	mph (km/h)	95 (153)
Lateral Thrust (100 mph No Ice)	lbs (N)	6.3 (28)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	4.6 (6.2)

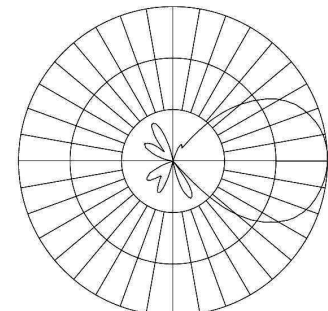
SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Azimuth
Relative Gain - 10 dB per Division

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

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E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com