

SY450-SWBS(XX)(ABK) Yagi directional, 8 dBd, wide band, black anodized, 746-960 MHz

- High gain, wide band yagi antenna that covers the whole 746-960 MHz frequency band
- Made of corrosion-resistant anodized aluminum for added durability and long life
- Fully welded construction for optimum performance and reliability
- Can be stacked for added gain

Sinclair's new SY450-SWBS(XX)(ABK) wide band yagi antenna has been developed to meet the need for a high gain, broadband, top quality directional antenna in the 746-960 MHz frequency range. Two or more antennas may be stacked for added gain.



Designed for high performance, versatility and ease of installation, the SY450 is well suited for a wide range of applications. Proud Partner of the iBwave Component Database.

When ordering, please refer to the list below for part# and specific configurations.

Part#	Connector
SY450-SWBSNM(ABK)	N(m)
SY450-SWBSNF(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		SY450-SWBS(XX)(ABK)	Issue: 6	Dated: 09-03-22

Electrical Specifications

Frequency Range	MHz	746 to 960	
Bandwidth	MHz	214	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	8 (10.1)	*2
VSWR (typ)		1.5:1	*3
Polarization		vertical or horizontal	
Impedance	Ω	50	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	80	
Vertical beamwidth (typ)	degrees	60	
Average Input Power (max)	W	125	
Front-to-back ratio (Typ)	dB	18	
Lightning protection		DC ground	

Notes

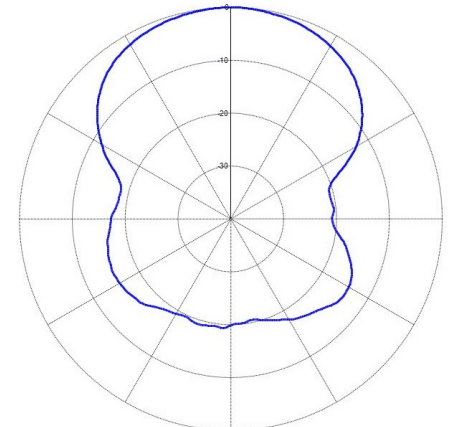
- *1 : See previous page for details
- *2 : 746-869 MHz 7.5 dBd, 869-960 MHz 8.5 dBd
- *3 : Maximum 1.6:1 @ <756 MHz and >950 MHz
- *4 : Qty 1

Mechanical Specifications

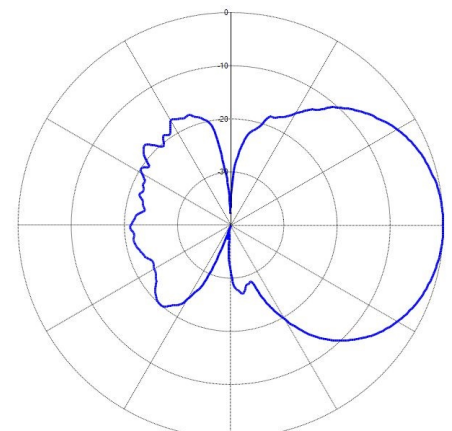
Width	in (mm)	9.5 (241)	
Depth	in (mm)	3.2 (81)	
Length/ Height	in (mm)	22.5 (572)	
Base pipe diameter	in (mm)	0.75 (19)	
Radiating element material		aluminum	
Finish		anodize (black)	
Weight	lbs (kg)	1.1 (0.5)	
Weight iced (1/2" ice)	lbs (kg)	6 (2.72)	
Mounting Hardware (Included)		Clamp115	*4
Actual shipping weight	lbs (kg)	3 (1.36)	
Shipping dimensions	in (mm)	24x11x5 (610x279x127)	

Environmental Specifications

Temperature range	°F (°C)	-22 to +140 (-30 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.16 (0.01)
Wind Loading Area (1/2" ice)	ft² (m²)	0.51 (0.05)
Rated wind velocity (no ice)	mph (km/h)	195 (314)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral Thrust (100 mph No Ice)	lbs (N)	6.1 (27.1)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	3.7 (5)
Tip deflection (100 mph No Ice)	degrees	0.2



Horizontal



Vertical

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