

SY350-SWBS(XX)(ABK) Yagi directional, 7.5 dBd, wide band, black anodized, 380-512 MHz

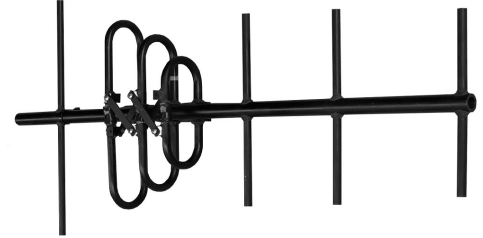
- High gain, wide band yagi antenna that covers the whole 380-512 MHz frequency band
- Made of corrosion-resistant anodized aluminum for added durability and long life
- Fully welded construction for optimum performance and reliability
- Can be stacked for added gain

Sinclair's new SY350-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 380-512 MHz frequency range. Two or more antennas may be stacked for added gain.

Designed for high performance, versatility and ease of installation, the SY350 is well suited for a wide range of applications.

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

Part#	Connector
SY350-SWBSNM(ABK)	N(m)
SY350-SWBSNF(ABK)	N(f)



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

Electrical Specifications

Frequency Range	MHz	380 to 512	
Bandwidth	MHz	132	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	7.5 (9.6)	*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	150	
Front-to-back ratio (Typ)	dB	16	
Lightning protection		DC ground	

Notes

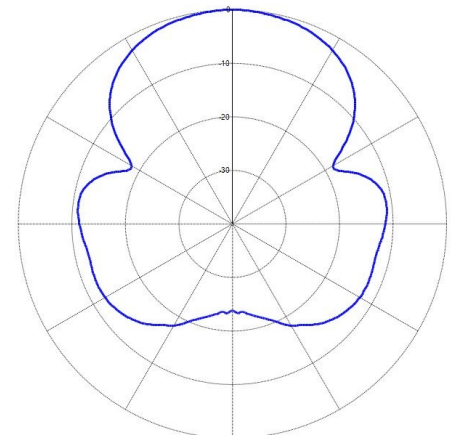
- *1 : See previous page for details
- *2 : 380-450 MHz 7 dBd, 450-512 MHz 8 dBd
- *3 : Maximum 1.75:1 @ <385 MHz and >505 MHz
- *4 : Qty 1

Mechanical Specifications

Width	in (mm)	15.1 (384)	
Depth	in (mm)	3.82 (97)	
Length/ Height	in (mm)	34.7 (881)	
Base pipe diameter	in (mm)	0.84 (21)	
Radiating element material		aluminum	
Finish		anodize (black)	
Weight	lbs (kg)	3.5 (1.59)	
Weight iced (1/2" ice)	lbs (kg)	11.6 (5.27)	
Mounting Hardware (Included)		Clamp115	*4
Actual shipping weight	lbs (kg)	7 (3.18)	
Shipping dimensions	in (mm)	42x9x4 (1067x229x102)	

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.38 (0.04)
Wind Loading Area (1/2" ice)	ft² (m²)	1.04 (0.1)
Rated wind velocity (no ice)	mph (km/h)	185 (298)
Rated wind velocity (1/2" radial ice)	mph (km/h)	105 (169)
Lateral Thrust (100 mph No Ice)	lbs (N)	14.3 (63.6)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	15.8 (21.3)
Tip deflection (100 mph No Ice)	degrees	0.6



Horizontal

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