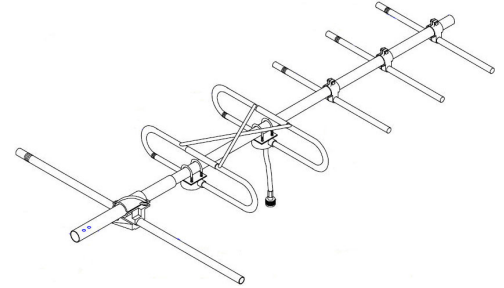


SY250-HF2S(XX)(U) Yagi directional, universal mount, 7 dBd, 138-174 MHz

- Center, end or wall mounting with optional clamps
- Heavy duty custom design for 40mm ice loading
- Specially designed for applications requiring extra broadband operation
- Optimized for gain

The SY250 series of antennas are a medium gain, broadband yagi antenna. It has been specially designed to replace the 206 series where extra broadband operation is required and/or icing or frost conditions are prevalent.

The SY250-HF2S(XX)(U) has been optimized for gain. It offers versatile mounting as it can be center, end or wall mounted. Mounting clamps are not included and must be ordered separately. Please contact customer service for other mounting configurations.



Clamp options:

- Wood Pole Mount: CLAMP017B (1.5 - 2.3" Diameter Perpendicular to Wood Post)
- Roof Mount/ Tower Side Mount: CLAMP017 (1.5 - 3.5" Pipe 90-degree to 1.5 - 3.5" Pipe) (Support Pipe to Roof not included)
- Wall mount: WMK-250 wall mount kit

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

Model Number	Connector
SY250-HF2SNM(U)	N-Male
SY250-HF2SNF(U)	N-Female

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

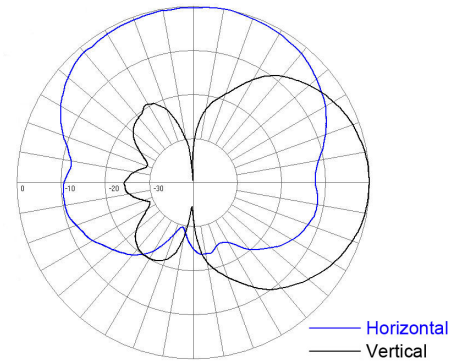
Frequency Range	MHz	138 to 174	
Connector		Various options avail.	*1
Gain (nominal)	dBd (dBi)	7 (9.1)	
VSWR (max)		2:1	
Polarization		vertical or horizontal	
Pattern		Directional	
Horizontal beamwidth (typ)	degrees	80	
Vertical beamwidth (typ)	degrees	60	
Average Input Power (max)	W	200	
Front-to-back ratio (Typ)	dB	20	

Notes

- *1 : See previous page for details
 *2 : for Roof mount. Wall mount: WMK-250. Wood Pole mount: CLAMP017B.

Mechanical Specifications

Width	in (mm)	42 (1067)	
Depth	in (mm)	6 (152)	
Length/ Height	in (mm)	81.75 (2076)	
Base pipe diameter	in (mm)	1.9 (48)	
Radiating element material		aluminum	
Reflector material		aluminum	
Weight	lbs (kg)	14.2 (6.45)	
Weight iced (1/2" ice)	lbs (kg)	40 (18.16)	
Mounting Hardware (Optional)		Clamp017	*2
Estimated Shipping Weight	lbs (kg)	35 (15.89)	
Actual shipping weight	lbs (kg)	35 (15.89)	
Shipping dimensions	in (mm)	110x48x6 (2794x1219x152)	



Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.58 (0.15)
Wind Loading Area (1/2" ice)	ft² (m²)	3.11 (0.29)
Rated wind velocity (no ice)	mph (km/h)	170 (274)
Rated wind velocity (1/2" radial ice)	mph (km/h)	115 (185)
Lateral Thrust (100 mph No Ice)	lbs (N)	67 (298)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	106 (143.1)

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