

SY250-HF2SNM(U) Yagi directional, universal mount, 7 dBd, 138-174 MHz

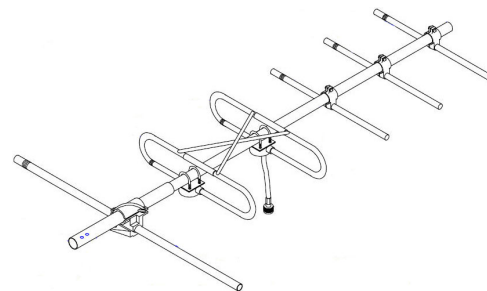
- Center, end or wall mounting with optional clamps
- Heavy duty custom design for 40mm ice loading
- Specially designed for applications requiring extra broadband operation
- Optimized for gain

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-HF2SNM(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



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Electrical Specifications

Frequency Range	MHz	138 to 174
Connector		N-Male
Gain (nominal)	dBd (dBi)	7 (9.1)
VSWR (max)		2:0
Polarization		vertical or horizontal
Pattern		Directional
Horizontal beamwidth (typ)	degrees	80
Vertical beamwidth (typ)	degrees	60
Average Power Input (max)	W	200
Front-to-back ratio (typ)	dB	20

Mechanical Specifications

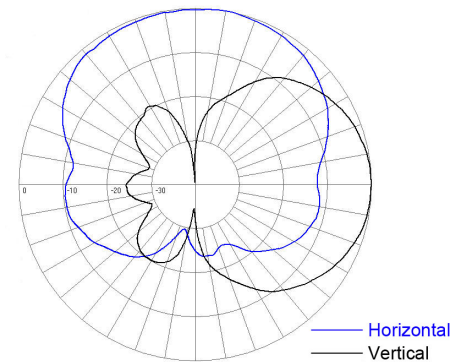
Width	in (mm)	42 (1067)
Depth	in (mm)	6 (152)
Length/ Height	in (mm)	81.75 (2076)
Base pipe diameter	in (mm)	1.9 (48)
Radiating element material		aluminum
Reflector material		aluminum
Weight	lbs (kg)	14.2 (6.45)
Weight iced (1/2" ice)	lbs (kg)	40 (18.16)
Mounting Hardware (Optional)		Clamp017 ^{*1}
Shipping Length/ Height	in (mm)	110 (2794)
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)	ft ² (m ²)	1.58 (0.15)
Wind Loading Area (1/2" ice)	ft ² (m ²)	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)

Notes

*1 : for Roof mount. Wall mount: WMK-250. Wood Pole mount: CLAMP017B.



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