

## SC2340-HMBSNF(D00) Tri-band Omni Antenna, 2dBi, 136-960 MHz

- Ultra wide band architecture covering all VHF/UHF/700&800&900 MHz
- Rugged construction for reliability and long life
- Integrated clamp for ease of installation

Sinclair's SC2340 is a compact multiband omni-directional antenna that covers all of the major LMR/PMR frequencies, including 136-174 MHz, 380-520 MHz and 698-960 MHz. This antenna is designed for a high degree of operational reliability in extreme wind, ice, and corrosive conditions. The high-quality components and the carefully engineered structure means this antenna can last for years in the field. Its relatively low mass and small wind-loading profile make it easy to install.

Contact your Sinclair Sales Representatives for availability and further details. See the footer of the spec sheet for contact info.



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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#### Electrical Specifications

Frequency Range 1 (F1)	MHz	136 to 174	
Bandwidth (F1)	MHz	38	
Frequency Range 2 (F2)	MHz	380 to 520	
Bandwidth (F2)	MHz	140	
Frequency Range 3 (F3)	MHz	698 to 960	
Bandwidth (F3)	MHz	262	
Gain F1 (typ)	dBd (dBi)	unity (2.1)	*1
Gain F2 (typ)	dBd (dBi)	1 (3.1)	*2
Gain F3 (typ)	dBd (dBi)	2 (4.1)	*3
Connector		N-Female	
Input VSWR (typ)		2:1	
Input VSWR (max)		2.5:1	
Polarization		vertical	
Impedance	$\Omega$	50	
Pattern		Omni-directional	
3dB beamwidth, vertical	degrees	72	*4
Average Input Power (max)	W	150	
Main Beam Electrical Tilt (Downtilt)	degrees	0	

#### Notes

- \*1 :  $\pm 1$ dB  
\*2 :  $\pm 1.5$ dB  
\*3 :  $\pm 2$ dB  
\*4 :  $\pm 10\%$

#### Mechanical Specifications

Width	in (mm)	3.5 (89)
Depth	in (mm)	1.9 (48)
Length/ Height	in (mm)	56.5 (1435)
Radome Diameter	in (mm)	1 (25)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	3 (1.36)
Mounting Hardware (Included)		2 x U bolt & nuts
Mounting configurations		upright
Actual shipping weight	lbs (kg)	5 (2.27)
Shipping dimensions	in (mm)	61x5x5 (1549x127x127)
Radome Colour		Blue

#### Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ( $^{\circ}\text{C}$ )	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	$\text{ft}^2$ ( $\text{m}^2$ )	0.3 (0.03)
Wind Loading Area (1/2" ice)	$\text{ft}^2$ ( $\text{m}^2$ )	0.5 (0.05)
Rated wind velocity (no ice)	mph (km/h)	210 (338)
Rated wind velocity (1/2" radial ice)	mph (km/h)	140 (225)
Lateral Thrust (100 mph No Ice)	lbs (N)	10.2 (45.4)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	19.4 (26.2)
Tip deflection (100 mph No Ice)	degrees	1

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