

**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.



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Product Specification Sheet		SC2340-HMBSNF(D00)	Issue: 1	Dated: 25-10-22
EPR				Dated: 25-10-22
Customer Tech Manual				

### 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	Ω	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 : ±1dB
- \*2 : ±1.5dB
- \*3 : ±2dB
- \*4 : +/- 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	°F (°C)	-40 to +140 (-40 to +60)	
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	0.3 (0.03)	
Wind Loading Area (1/2" ice)	ft² (m²)	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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