

SC432T-HF6LDF(I45-G00) Triple collinear omni, 0 dBd (typ), low PIM, 746-869 MHz

- Triple high isolation collinear antenna with typical 0 dBd gain, with 45 dB port-to-port isolation.
- 1.5:1 VSWR to provide excellent coverage
- -150dBc passive intermodulation performance reduces unwanted harmonic frequencies
- Designed to operate in extreme environmental conditions.

Recommend using the SMK-335-A3 or SMK-335-A7 kits when side mounting.

Sinclair SC432T antenna is a tripple port antenna that comes with outstanding isolation which means precious tower space can be saved. Designed for multi-channel systems, it features with low intermodulation products and highly rated average power. The SC432 series antennas are enclosed in a rugged, UV protected fiberglass radome designed to withstand severe wind and ice conditions.



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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet EPR 018125		SC432T-HF6LDF(I45-G00)	Issue: 52	Dated: 26-05-22 Dated: 31-10-06

Electrical Specifications

Frequency Range	MHz	746 to 869
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	unity (2.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	70
Average Input Power (max)	W	300
Isolation between sections (nom)	dB	45
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4, or 6 degrees

Notes

*1 : Qty 2

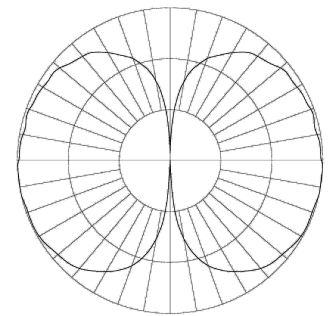
Mechanical Specifications

Width	in (mm)	3.5 (89)
Depth	in (mm)	3.5 (89)
Length	in (mm)	134 (3404)
Base pipe diameter	in (mm)	3.5 (89)
Base pipe mounting length	in (mm)	18 (457)
Radiating element material		copper
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	33 (14.98)
Weight iced (1/2" ice)	lbs (kg)	57 (25.88)
Mounting configurations		upright
Mounting Hardware (Optional)		Clamp006B *1
Kit for Offset Side Mount (straight tower leg)		SMK-335-A3 or SMK-335-A7
Actual shipping weight	lbs (kg)	46 (20.88)
Shipping dimensions	in (mm)	156x6x6 (3962x152x152)

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.86 (0.17)
Wind Loading Area (1/2" ice)	ft² (m²)	2.45 (0.23)
Survival wind velocity (no ice)	mph (km/h)	220 (354)
Survival wind velocity (1/2" radial ice)	mph (km/h)	195 (314)
Rated wind velocity (no ice)	mph (km/h)	190 (306)
Rated wind velocity (1/2" radial ice)	mph (km/h)	165 (266)
Lateral Thrust (100 mph No Ice)	lbs (N)	71 (315.8)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	273 (368.6)
Tip deflection (100 mph No Ice)	degrees	0.6

SINCLAIR TECHNOLOGIES



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

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