

## SC432D-HF6LDF(DXX-I45-G03-PIP)

Collinear omni, 3 dBd, dual, low PIM & PIP, 45 dB, HD, 746-869 MHz

Also referred as: SC432D-HF6LDF(DXX-I45-G03-E5749)

- Dual collinear omni antenna with typical 3dBd gain
- Designed to operate in extreme environmental conditions
- Provides 45 dB port-to-port isolation
- Electrical downtilt available

Sinclair's new line of high isolation multiple port antennas, the SC432's series of collinear, omni-directional antennas are as a dual antennas housed inside one radome.

The SC432 series provides industry-leading performance with 1.5:1 VSWR, providing excellent RF coverage for smaller population centers, and rural.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

Model Number	Downtilt
SC432D-HF6LDF(D00-I45-G03-PIP)	0°
SC432D-HF6LDF(D01-I45-G03-PIP)	1°
SC432D-HF6LDF(D02-I45-G03-PIP)	2°
SC432D-HF6LDF(D03-I45-G03-PIP)	3°
SC432D-HF6LDF(D04-I45-G03-PIP)	4°
SC432D-HF6LDF(D05-I45-G03-PIP)	5°
SC432D-HF6LDF(D06-I45-G03-PIP)	6°
SC432D-HF6LDF(D07-I45-G03-PIP)	7°
SC432D-HF6LDF(D08-I45-G03-PIP)	8°
SC432D-HF6LDF(D09-I45-G03-PIP)	9°
SC432D-HF6LDF(D10-I45-G03-PIP)	10°



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Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
<b>Telephone</b>	1 800 263 3275	+44 (0) 1487 84 28 19	Canada: 1 800 263 3275 International: +1 905 726 7676	+1 905 727 0165
<b>E-mail</b>	salesusa@sinctech.com	salesuk@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC432D-HF6LDF(DXX-I45-G03-PIP)	Issue: 1	Dated: 20-06-22
EPR				Dated: 20-06-22
Customer Tech Manual				

### Electrical Specifications

Frequency Range	MHz	746 to 869
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	3 (5.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	30
Average Input Power (max)	W	300
Number of ports		2
Isolation between sections (nom)	dB	45
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
PIP(KW, max)		25
Lightning protection		DC ground

### Notes

- \*1 : Qty 2
- \*2 : Optional, not included.

### Ordering Information

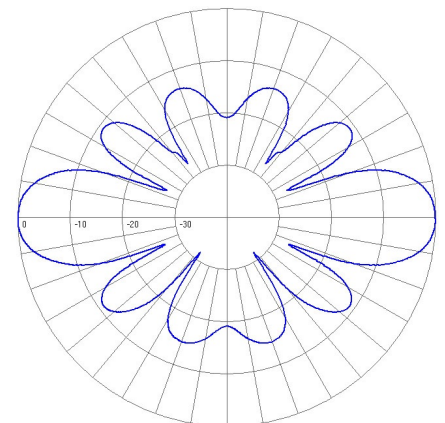
Clamps must be ordered separately.

### Mechanical Specifications

Width	in (mm)	3.5 (89)
Depth	in (mm)	3.5 (89)
Length/ Height	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 *2
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)	285 (384.8)
Tip deflection (100 mph No Ice)	degrees	0.59



Vertical, 0° DT

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