

SC432D-HF6LDF(D2-I40-G6-E5749) 6 dBd, 2° DT, low PIM & PIP rated, 40dB, 746-869 MHz

- Dual collinear antennas with typical 6 dBd gain, 2° DT and PIP rated
- 1.5:1 VSWR to provide excellent coverage
- Designed to operate in extreme environmental conditions.
- Provides 40 dB port-to-port isolation.

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

Sinclair's new line of high isolation multiple port antennas, the SC432's are collinear, omni-directional antennas are available with various gains (0, 3, and 6 dBd), and also come as single, dual, or triple antennas all within the same radome.

Peak Instantaneous Power (PIP):

PIP produced by in-phase peak powers in a multicarrier system is much higher than a single carrier system. Multipaction and other effects in such a system will cause loss and distortion of the RF signal (increase of noise figure or bit-error-rate) and can damage RF components or subsystems. Sinclair antenna PIP rating is quantified by an indoor antenna and 12 channel combining system at Motorola Campus, Schaumburg. This system provided typical 110 Watts input average power per channel and a combined 575 Watts minimum average power at the antenna input port. At this level, a 25KW PIP is achieved from the calculation.

It is recommended that enough margin should be applied in the system design in order to compensate the effect of the elevation, humidity, temperature and other environment factors to the PIP handling of an antenna.



www.sinctech.com

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com

Electrical Specifications

Frequency Range	MHz	746 to 869
Bandwidth	MHz	123
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	6 (8.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	12.5
Average Power Input (max)	W	500
Isolation between sections (nom)	dB	40
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
PIP(KW, max)		25
Electrical tilt (available)		0-10 degrees in 1° increments

Notes

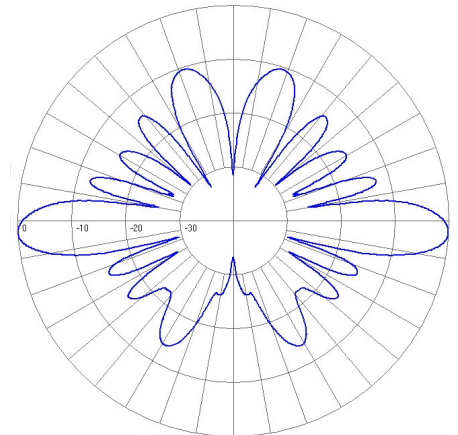
*1 : Qty 2

Ordering Information

Clamps not included- Recommend Qty 2- Clamp006B.
Recommend using the SMK-335-A3 or SMK-335-A7 kits when side mounting.

Mechanical Specifications

Width	in (mm)	3.5 (89)
Depth	in (mm)	3.5 (89)
Length/ Height	in (mm)	189.5 (4813)
Base pipe diameter	in (mm)	3.5 (89)
Base pipe mounting length	in (mm)	30 (762)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	41.4 (18.8)
Weight iced (1/2" ice)	lbs (kg)	76.6 (34.78)
Mounting Hardware (Optional)		Clamp006B
Actual shipping weight	lbs (kg)	71 (32.23)
Shipping dimensions	in (mm)	202x6x6 (5131x152x152)
Number of ports		2
Mounting configurations		upright
Recommended For Offset Side Mount:		SMK-335-A3 or SMK-335-A7



Vertical, 2° downtilt shown

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	2.71 (0.25)
Wind Loading Area (1/2" ice)	ft² (m²)	3.58 (0.33)
Rated wind velocity (no ice)	mph (km/h)	170 (274)
Rated wind velocity (1/2" radial ice)	mph (km/h)	155 (250)
Lateral thrust (100 mph No Ice)	lbs (N)	119 (529.3)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	717 (968)
Tip deflection (100 mph No Ice)	degrees	2.1

Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com