

SC264-HF10LDF(D00) Collinear omni antenna, 4 dBd gain, low PIM, HD, 135-148 MHz

- Patent-pending Aurora™ balanced design covers the 135-148 MHz frequency range
- Wideband and highly stable RF performance across the whole band
- Light-weight heavy-duty antenna with outstanding 180 mph wind rating for harsh environment
- Industry-leading -150 dBc PIM rating for multi-channel systems

The Aurora™ SC family is Sinclair's next generation of collinear antennas. The patent-pending antenna utilizes cutting-edge, field-proven balanced design to deliver an unparalleled combination of higher gain, wider bandwidth, highly consistent RF pattern, higher wind rating and lighter weight, all in a small form factor. Designed according to IEC62305 Part 1-4, VDE0855-300, and fulfilling the requirements of lightning protection class II, these antennas are fully DC-grounded and protected with a lightning spike through the top of the radome. Unbeatable, heavy-duty construction along with the enhanced wind rating, means these antennas can last for years in the most challenging environments. The new Aurora SC series is ideal for public safety applications as it offers reliability, durability, and easy installation in a lightweight and compact package.

Electrical downtilt, Null fill, PIP rated, or inverted versions are also available. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.



www.sinctech.com

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Product Specification Sheet
EPR 018973
Customer Tech Manual 006757

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Issue: 1

Dated: 16-04-19
Dated: 27-03-19

Electrical Specifications

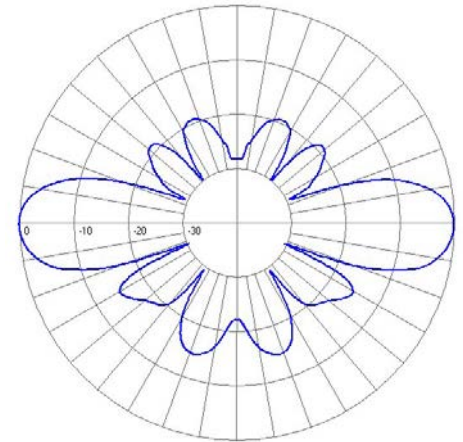
Frequency Range	MHz	135 to 148
Bandwidth	MHz	13
Connector		7/16 DIN-Female
Gain (nominal)	dBd (dBi)	4 (6.1)
Input VSWR (typ)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni- directional
Vertical beamwidth (typ)	degrees	20
Average Input Power (max)	W	250
Passive intermod. (2x20W, 3rd ord.)	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/ Height	in (mm)	228 (5791)
Base pipe diameter	in (mm)	3.5 (89)
Base pipe mounting length	in (mm)	24 (610)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	43 (19.52)
Weight iced (1/2" ice)	lbs (kg)	86 (39.04)
Mounting Hardware (Optional)		Clamp147M *1
Recommended For Offset Side Mount:		SMK-335-A3 or SMK-335-A7
Mounting configurations		upright, inverted
Estimated Shipping Weight	lbs (kg)	60 (27.24)
Shipping dimensions	in (mm)	240x5x5 (6096x127x127)



Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	3.3 (0.31)
Wind Loading Area (1/2" ice)	ft² (m²)	4.3 (0.4)
Rated wind velocity (no ice)	mph (km/h)	135 (217)
Rated wind velocity (1/2" radial ice)	mph (km/h)	110 (177)
Lateral Thrust (100 mph No Ice)	lbs (N)	127 (564.9)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	990 (1336.5)
Tip deflection (100 mph No Ice)	degrees	3

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