

SC45A-SF3(YYY)(DXX) Collinear omni, 10 dBd, low PIM, 890-960 MHz

- Patent-pending design covers the 890-960 MHz frequency range
- PIM rated design for low noise characteristics, ideal for trunking systems
- Light-weight for ease of shipping and installation
- Rugged design for harsh environment

The SC45A is Sinclair's next generation of collinear antenna. 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. Unbeatable, heavy-duty construction along with the enhanced wind rating, means these antennas can last for years in the most challenging environments. The new SC45(x) series is ideal for public safety applications as it offers reliability, durability, and easy installation in a lightweight and compact package.

When ordering, please refer to the chart below for specific part# and configurations. Downtilts are subject to various list price. Contact your Sinclair Sales Representative or Customer Service Representative for details.

Part#	Connector	Downtilt	PIM
SC45A-SF3LDF(D00)	7/16 DIN(F)	0°	< -150 dBc
SC45A-SF3LDF(D02)	7/16 DIN(F)	2°	< -150 dBc
SC45A-SF3LDF(D04)	7/16 DIN(F)	4°	< -150 dBc
SC45A-SF3LDF(D06)	7/16 DIN(F)	6°	< -150 dBc
SC45A-SF3LNF(D00)	N(F)	0°	< -138 dBc
SC45A-SF3LNF(D02)	N(F)	2°	< -138 dBc
SC45A-SF3LNF(D04)	N(F)	4°	< -138 dBc
SC45A-SF3LNF(D06)	N(F)	6°	< -138 dBc



Product may not appear exactly as image

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
Telephone	1 800 263 3275	+1 905 727 0165 ext 232	Canada: 1 905 726 7676 International: +1 905 726 7676	+1 905 727 0165 ext 287
E-mail	salesusa@sinctech.com	salesemea@sinctech.com	salescan@sinctech.com	salesasia@sinctech.com
Product Specification Sheet		SC45A-SF3(YYY)(DXX)	Issue: 1	Dated: 17-10-23

Electrical Specifications

Frequency Range	MHz	890 to 960	
Bandwidth	MHz	70	
Gain (nominal)	dBd (dBi)	10 (12.1)	*1
Input VSWR (max)		1.5:1	
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	
3dB beamwidth, horizontal	degrees	360	
3dB beamwidth, vertical	degrees	6	*2
Average Input Power (max)	W	500	
Grounding		All metal parts DC-grounded	

Notes

- *1 : ±1 dB
- *2 : ±10%
- *3 : ±5%
- *4 : Qty 2
- *5 : Not included. Available separately.

Mechanical Specifications

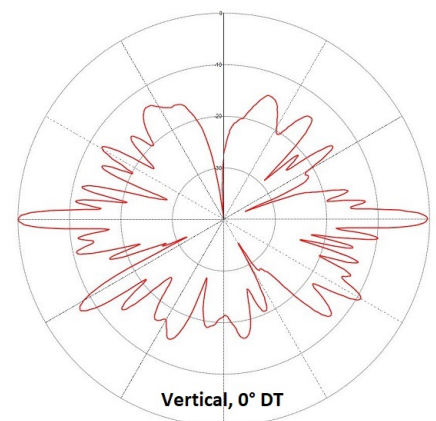
Width	in (mm)	2.5 (64)	
Depth	in (mm)	2.5 (64)	
Length/ Height	in (mm)	165 (4191)	*3
Base pipe diameter	in (mm)	2.5 (64)	
Radome material		fiberglass (UV protected)	
Weight	lbs (kg)	19 (8.63)	
Mounting Hardware (Optional)		Clamp005, clamp005X, or clamp130	*4
Mounting configurations		upright	
Kit for Offset Side Mount (straight tower leg)		SMK-335-A3	*5
Estimated Shipping Weight	lbs (kg)	44 (19.98)	
Shipping dimensions	in (mm)	195x4x4 (4953x102x102)	

Ordering Information

Clamps to be purchased separately

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.9 (0.18)
Wind Loading Area (1/2" ice)	ft² (m²)	2.7 (0.25)
Rated wind velocity (no ice)	mph (km/h)	160 (258)
Rated wind velocity (1/2" radial ice)	mph (km/h)	125 (201)
Lateral Thrust (100 mph No Ice)	lbs (N)	73 (324.7)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	415 (560.3)
Tip deflection (100 mph No Ice)	degrees	3.7



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