

SC488-SF9LDF Collinear omni, 10 dBd, low PIM, 694-746 MHz

- 10 dBd gain with omni-directional pattern and low PIM
- Available with 2, 4, or 6 degrees of downtilt
- The SMK-325-A3 or SMK-325-A7 kit is recommended for side mounting

Recommend using the SMK-325-A3 or SMK-325-A7 kit when side mounting.

The SC488-L series of fiberglass collinear omni-directional antenna offers narrow beam width and higher gain for systems in trunking (806-869 MHz), new 700 MHz band (694-746 and 746-806 MHz), cellular (824-896 MHz) or uplink trunking (896-940 MHz), and 1057-1123 MHz. Designed with 10 dBd gain (9.5 dBd with downtilt), the zero degree downtilt version of this antenna can be mounted in either an upright or inverted orientation (universal mount).

This antenna is also available with a full compliment of electrical downtilts in both upright and inverted patterns.



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Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
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Product Specification Sheet EPR 018612		SC488-SF9LDF	Issue: 2	Dated: 28-06-11 Dated: 23-06-11

Electrical Specifications

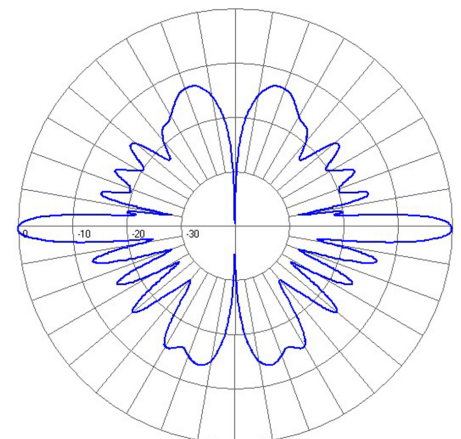
Frequency Range	MHz	694 to 746
Gain (nominal)	dBd (dBi)	10 (12.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Vertical beamwidth (typ)	degrees	6
Average Power Input (max)	W	500
Passive intermod. (2x20W, 3rd ord.)	dBc	-150
Lightning protection		DC ground
Electrical tilt (available)		0,2,4, or 6 degrees

Mechanical Specifications

Connector		7/16 DIN-Female
Length/ Height	in (mm)	198 (5029)
Width	in (mm)	2.5 (64)
Depth	in (mm)	2.5 (64)
Base pipe diameter	in (mm)	2.5 (64)
Base pipe mounting length	in (mm)	18 (457)
Radome material		fiberglass (UV protected)
Weight	lbs (kg)	29 (13.17)
Mounting Hardware (Standard)		Clamp130
Actual Shipping weight	lbs (kg)	65 (29.51)
Shipping dimensions	in (mm)	223x4.5x4.5 (5664x114x114)
Recommended Side Mount Kit(s):		SMK-325-A3 or SMK-325-A7

Environmental Specifications

Temperature range	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft^2 (m^2)	2.1 (0.2)
Wind Loading Area (ice)	ft^2 (m^2)	2.95 (0.27)
Rated wind velocity (no ice)	mph (km/h)	120 (193)
Rated wind velocity (1/2" radial ice)	mph (km/h)	95 (153)
Lateral thrust (100mph)	lbs (N)	77 (342.5)
Bending moment	ft-lbs (Nm)	499 (673.7)
Tip deflection	degrees	6.1



Elevation

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