



A Norsat Company (1) Norsat

SD222-SF3PASNM

Exposed dipole, 3 dBd omni/ 6 dBd offset, field adjustable, N-Male, 142-152 MHz

Also referred as: SRL222NM*3

- · External harness allows field adjustment for omni-directional or offset coverage
- · 3 dBd in omni-directional configuration, 6 dBd in offset configuration
- 10 MHz bandwidth, covering 142-152 MHz

Recommend SMK-125-A3 or SMK-125-A7 when side mounting. Available from Sinclair separately.

The SD222 is a broadband gain antenna that is field adjustable to provide an omnidirectional or offset coverage pattern.

Because external cabling is used, the antenna pattern is easily changed in the field. Field adjustment guidelines are provided.

The SD222 provides 6dBd gain in the offset configuration, and 3dBd gain in the omni-directional configuration.

This antenna covers the 132-174MHz band in 7 band splits. Each band split covers 10MHz.

Application Notes

- The field adjustable SD222 series is designed for use where either an omni-directional pattern or a higher gain offset pattern may be required.
- The SD222 series covers 132-174 MHz in 11 band splits: 132-142 MHz (F1), 137-147 MHz (F2), 142-152 MHz (F3), 147-157 MHz (F4), 152-162 MHz (F5), 158-168 MHz (F6), 163-174 MHz (F7). 150-160 MHz (F8), 160-170 MHz (F9), 215-225 MHz (F10), 139-149 MHz (F11).



Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Antennas Low Band, Aviation, and VHF Antennas SD222 Series

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Electrical Specifications			
Frequency Range	MHz	142 to 152	
Bandwidth	MHz	10	
Connector	N-Male		
Input VSWR (max)	1.5:1		
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni or Offset, Adjustable	
Horizontal beamwidth (typ)	degrees	0	*1
Vertical beamwidth (typ)	degrees	34	
Average Input Power (max)	W	300	
Lightning protection		DC ground	

Notes

- *1:170 degrees when in Offset configuration.
- *2 : Qty 2 included
- *3: For Omni pattern, bottom mount. For offset, side

Mechanical Specifications			
Width	in (mm)	12 (305)	
Length/ Height	in (mm)	114 (2896)	
Base pipe diameter	in (mm)	1.5 (38)	
Base pipe mounting length	in (mm)	15 (381)	
Radiating element material	. ,	aluminum	

Base Base Radia Base pipe material aluminum Weight lbs (kg) 17 (7.72) Mounting Hardware (Included) Clamp120 Recommended For Offset Side Mount: SMK-125-A3 or SMK-125-A7 Mounting configurations Universal Mount

lbs (kg)

in (mm)

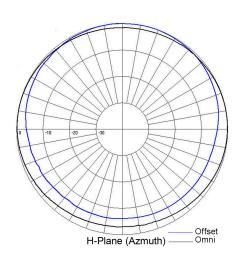
Environmental Specifications

Actual shipping weight

Shipping dimensions

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Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Wind Loading Area (Flat Plate Equivalent)	ft² (m²)	1.13 (0.1)
Wind Loading Area (1/2" ice)	ft² (m²)	2.45 (0.23)
Rated wind velocity (no ice)	mph (km/h)	120 (193)
Rated wind velocity (1/2" radial ice)	mph (km/h)	80 (129)
Lateral Thrust (100 mph No Ice)	lbs (N)	65.1 (289.6)
Bending moment (100 mph No Ice)	ft-lbs (Nm)	12.8 (17.3)

Ordering Information Mounting hardware included.



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Product Specification Sheet EPR 015198		SD222-SF3PASNM	Issue: 10	Dated: 25-11-20 Dated: 30-09-13

25 (11.35) 117x4x13.5 (2972x102x343)