

ST221-SF1SNF(E6248) Mobile low profile, VHF wideband coverage, 158.4-168 MHz

- Low profile for a wide range of mobile applications
- Cast aluminum
- 9.6 MHz Bandwidth
- Applications include: trains, taxis, police cars, emergency vehicles, buses and trucks

Sinclair's Excaliber ST221 series of antennas are low profile antennas designed for a wide range of mobile applications. Their design renders them relatively inconspicuous and resistant to damage. They have become a North American standard antenna for railroad locomotive service.

A minimum 62" x 42" ground plane is required.



www.sinctech.com

Region	United States	Europe, Middle East, and Africa	Canada, Caribbean, and Latin America	Asia-Pacific
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Product Specification Sheet EPR 018514 Customer Tech Manual 005151		ST221-SF1SNF(E6248)	Issue: 2	Dated: 23-07-20 Dated: 23-07-20

Electrical Specifications

Frequency Range	MHz	158.4 to 168
Bandwidth	MHz	9.6
Connector		N-Female
Gain (nominal)	dBd (dBi)	unity (2.1)
Input VSWR (max)		1.5:1
Polarization		vertical
Impedance	Ω	50
Pattern		Omni-directional
Average Input Power (max)	W	300
Lightning protection		DC ground

Mechanical Specifications

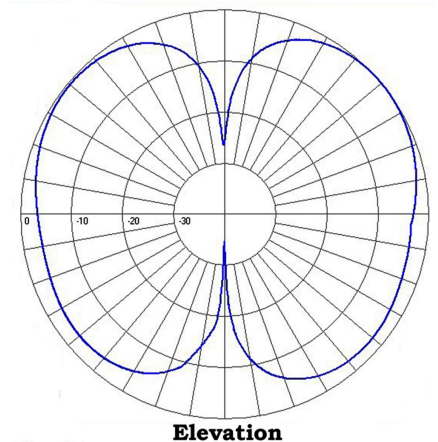
Width	in (mm)	2.2 (56)
Depth	in (mm)	24.5 (622)
Length/ Height	in (mm)	4 (102)
Mounting hardware		Supplied
Actual shipping weight	lbs (kg)	6 (2.72)
Shipping dimensions	in (mm)	3x5x25 (76x127x635)
Ground Plane (min)	in (mm)	62x42

Ordering Information

UHF-Female connector also available.

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
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