

ST221-SF2SNF(FXXXX) Mobile omni, 0 dBd, 2.5 MHz B.W., N-Female, 162-174 MHz

Also referred as: EXCAL221NF-XXXX

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

**A minimum 48" x 48" ground plane is required.**

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 48" x 48" ground plane is required.



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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 018351 Customer Tech Manual 005112		ST221-SF2SNF(FXXXX)	Issue: 2	Dated: 14-12-16 Dated: 30-09-13
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### Electrical Specifications

Frequency Range	MHz	162 to 174
Bandwidth	MHz	2.5
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 Power Input (max)	W	300
Lightning protection		DC ground

### Mechanical Specifications

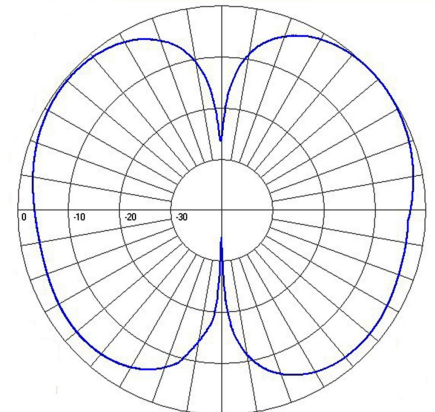
Width	in (mm)	2.2 (56)
Depth	in (mm)	21.5 (546)
Length/ Height	in (mm)	4 (102)
Actual shipping weight	lbs (kg)	6 (2.72)
Shipping dimensions	in (mm)	3x5x25 (76x127x635)
Ground Plane (min)	in (mm)	48x48
Mounting hardware		Supplied

### Environmental Specifications

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

Specify exact frequency at time of order. For frequency 165.8 MHz, please use model number ST221-SF2SNF(F1660). The part number should be to the nearest 0.5 MHz.



**Elevation**

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