

ST221R-SF2SNF(FXXXX-CWH) Mobile omni, 0 dBd, radome enclosed, N-Female, 150-174 MHz

Also referred as: EXCAL221R*1

- Designed for a wide range of mobile applications
- Low profile, radome enclosed design
- From 142-159 MHz 1.3 MHz bandwidth; from 159.5-174 MHz 2.0 MHz bandwidth
- Applications include: trains, taxis, police cars, emergency vehicles, buses and trucks

A minimum 36" x 48" ground plane is required.

Sinclair's Excaliber ST221R 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 36" x 48" ground plane is required.



Antenna may not appear exactly as picture.

www.sinctech.com

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 016269

ST221R-SF2SNF(FXXXX-CWH)

Issue: 6

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 Dated: 29-04-16

Electrical Specifications

Frequency Range	MHz	150 to 174
Bandwidth	MHz	2
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

Notes

*1 : For 159.5-174 MHz. 142-159 MHz BW is 1.3 MHz.

Mechanical Specifications

Width	in (mm)	4.6 (117)
Length/ Height	in (mm)	4.8 (122)
Length	in (mm)	18.8 (478)
Radome material		ABS (white)
Actual shipping weight	lbs (kg)	3 (1.36)
Shipping dimensions	in (mm)	10x20x5 (254x508x127)
Ground Plane (min)	in (mm)	36x48
Mounting hardware		Supplied

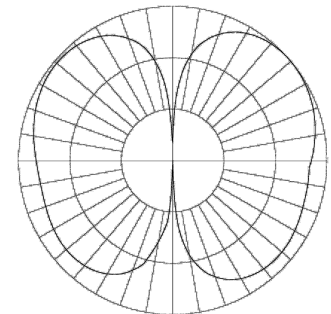
Ordering Information

Specify exact frequency at time of order. For frequency 160.8 MHz, please use model number ST221R-SF1SNF(F1610). The part number should be to the nearest 0.5 MHz.

Environmental Specifications

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



MEASURED RADIATION PATTERN
VERTICAL POLARIZATION

Elevation
Relative Gain - 10 dB per Division

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