

ST221R-SF1SNF(FXXXX-CWH) Mobile omni, 0 dBd, radome enclosed, N-Female, 132-150 MHz

Also referred as: EXCAL221R*1

- Designed for a wide range of mobile applications
- Low profile, radome enclosed design
- From 132-141.5 MHz 1 MHz bandwidth; from 142-150 MHz 1.3 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 018790
 Customer Tech Manual 005013

ST221R-SF1SNF(FXXXX-CWH)

Issue: 80

Dated: 14-12-16
 Dated: 29-04-16

Electrical Specifications

Frequency Range	MHz	132 to 150
Bandwidth	MHz	1
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 : 1 MHz from 132-141.5; 1.3 from 142-159 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

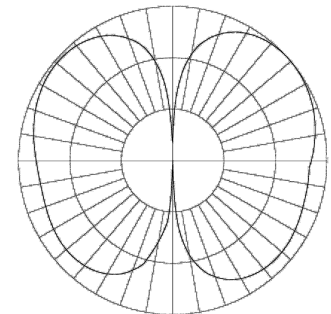
Ordering Information

Specify exact frequency at time of order. For example, for a frequency of 148.8 MHz, please use model number ST221R-SF1SNF(F1490). 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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