

ST221-SF1SUF(FXXXX) Mobile omni, 0 dBd, 138-163 MHz

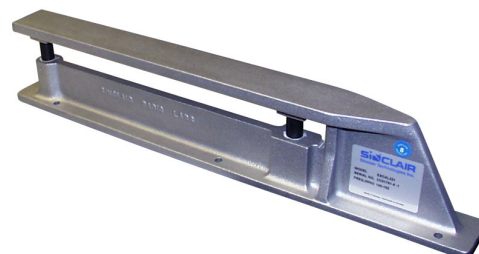
Also referred as: EXCAL221UF-XXXX

- 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.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet EPR 018350 Customer Tech Manual 005112		ST221-SF1SUF(FXXXX)	Issue: 1	Dated: 11-08-15 Dated: 14-07-08

Electrical Specifications

Frequency Range	MHz	138 to 163
Bandwidth	MHz	2.5
Connector		UHF-Female
Gain (nominal)	dBi (dBd)	2.1 (unity)
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

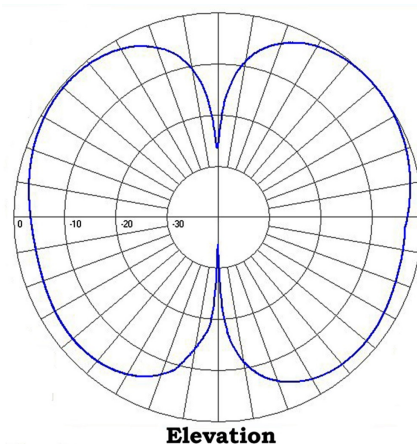
Width	mm (in)	56 (2.2)
Depth	mm (in)	622 (24.5)
Length/ Height	mm (in)	102 (4)
Actual Shipping weight	kg (lbs)	3.18 (7)
Shipping dimensions	mm (in)	76x127x635 (3x5x25)
Ground Plane (min)	mm (in)	(48x48)
Mounting hardware		Supplied

Environmental Specifications

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

Ordering Information

Specify exact frequency at time of order. For frequency 160.8 MHz, please use model number ST221-SF1SUF(F1610). The part number should be to the nearest 0.5 MHz.



Region	United States	Europe, Middle East and Africa	Caribbean and Latin America	Canada and rest of the world
Telephone	USA: 1 800 263 3275	International: +44 (0) 1487 84 28 19	International: +1 905 726 7676	Canada: 1 800 263 3275 International: +1 905 727 0165
E-mail	salesusa@sinctech.com	salesuk@sinctech.com	salesla@sinctech.com	salescan@sinctech.com
Product Specification Sheet		ST221-SF1SUF(FXXXX)	Issue: 1	Dated: 11-08-15
EPR 018350				Dated: 14-07-08
Customer Tech Manual 005112				