

ST321 SERIES Mobile omni, 0 dBd, UHF and Tetra Transit Antennas

- Compact, low profile
- Cast aluminum antenna designed for use in both fixed and mobile installations
- Renowned for its years of reliable service in very harsh environmental conditions

Sinclair ST321 series of UHF transit antennas are low profile rugged alternative to quarter wave whips. The ST321 series are of a high strength cast aluminum design for longevity. These antennas are an excellent choice for low clearance applications on trains, public transit vehicles, construction equipment, police vehicles, etc. The antenna is supplied with the appropriate hardware to ensure a weather proof installation. Minimum 30" x 30" ground plane is required.



Antenna may not appear exactly as image.

When ordering, please refer to the chart below for the model number (subject to various prices).

Model Number	Bandwidth (MHz)	Connector	Frequency Range (MHz)	VSWR
ST321-SF1SNF	10	N-F	406-416	<1.5:1
ST321-SF2SNF	10	N-F	410-420	<1.5:1
ST321-SF9SNF	10	N-F	420-430	<1.5:1
ST321-SF7SNF	10	N-F	430-440	<1.5:1
ST321-SF10SNF	15	N-F	436-448	<1.5:1
ST321-SF8SNF	10	N-F	440-450	<1.5:1
ST321-SF13SNF	15	N-F	445-460	<1.5:1
ST321-SF3SNF	15	N-F	450-465	<1.5:1
ST321-SF4SNF	15	N-F	455-470	<1.5:1
ST321-SF5SNF	15	N-F	470-485	<1.5:1
ST321-ST1SNF	20	N-F	380-400	<2.0:1
ST321-ST2SNF	20	N-F	410-430	<2.0:1
ST321-SF1SUF	10	UHF-F	406-416	<1.5:1
ST321-SF2SUF	10	UHF-F	410-420	<1.5:1
ST321-SF9SUF	10	UHF-F	420-430	<1.5:1
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ST321-SF8SUF	10	UHF-F	440-450	<1.5:1
ST321-SF3SUF	15	UHF-F	450-465	<1.5:1
ST321-SF4SUF	15	UHF-F	455-470	<1.5:1
ST321-SF5SUF	15	UHF-F	470-485	<1.5:1

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Product Specification Sheet		ST321 SERIES	Issue: 2	Dated: 02-03-23

Electrical Specifications

Frequency Range	MHz	380 to 485	
Gain (nominal)	dBd (dBi)	unity (2.1)	*1
Polarization		vertical	
Impedance	Ω	50	
Pattern		Omni-directional	*2
Average Input Power (max)	W	50	
Grounding		All metal parts DC-grounded	

Notes

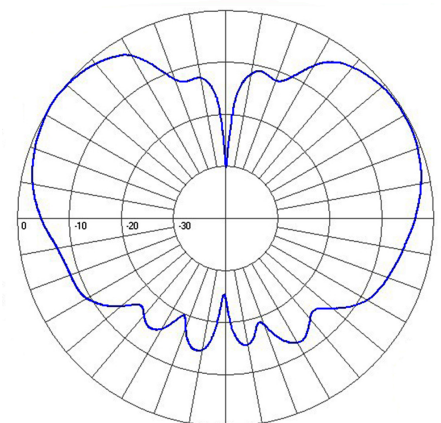
- *1 : Similar to 1/4 wavelength monopole.
- *2 : Similar to 1/4 wavelength monopole.

Mechanical Specifications

Width	in (mm)	2.5 (64)
Depth	in (mm)	7.5 (191)
Length/ Height	in (mm)	2.5 (64)
Mounting Hardware		Supplied
Estimated Shipping Weight	lbs (kg)	3 (1.36)
Shipping dimensions	in (mm)	10x8x5.5 (254x203x140)
Ground Plane (min)	in (mm)	30x30

Environmental Specifications

Temperature range	°F (°C)	-40 to +140 (-40 to +60)
Rated wind velocity (no ice)	mph (km/h)	310 (499)



Elevation

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