

Overview

Southwest Antennas Part # 1001-139 is a half wave dipole omni antenna with a frequency range of 2.2 to 2.5 GHz and 2.15 dBi of peak gain. This product features an integrated RF bandpass filter to help eliminate interference from other co-located radios operating outside of the antenna's 2.2 - 2.5 GHz operational frequency range, providing increased performance for radio systems.

The rotating black chrome TNC(m) RF connector can be easily secured or removed from equipment in the field by a single gloved hand, no tools required. A rugged flat black fiberglass radome provides protection from damage and gives the antenna a low visibility finish.

Features

- Broad Band Coverage
- Half Wave Dipole
- 2.2 - 2.5 GHz
- 2.15 dBi Omni Radiation Pattern
- Integrated 3-Pole RF Bandpass Filter
- 8W Power Handling
- Rugged Flat Black Fiberglass Radome
- Black Chrome Rotating TNC(m) RF Connector



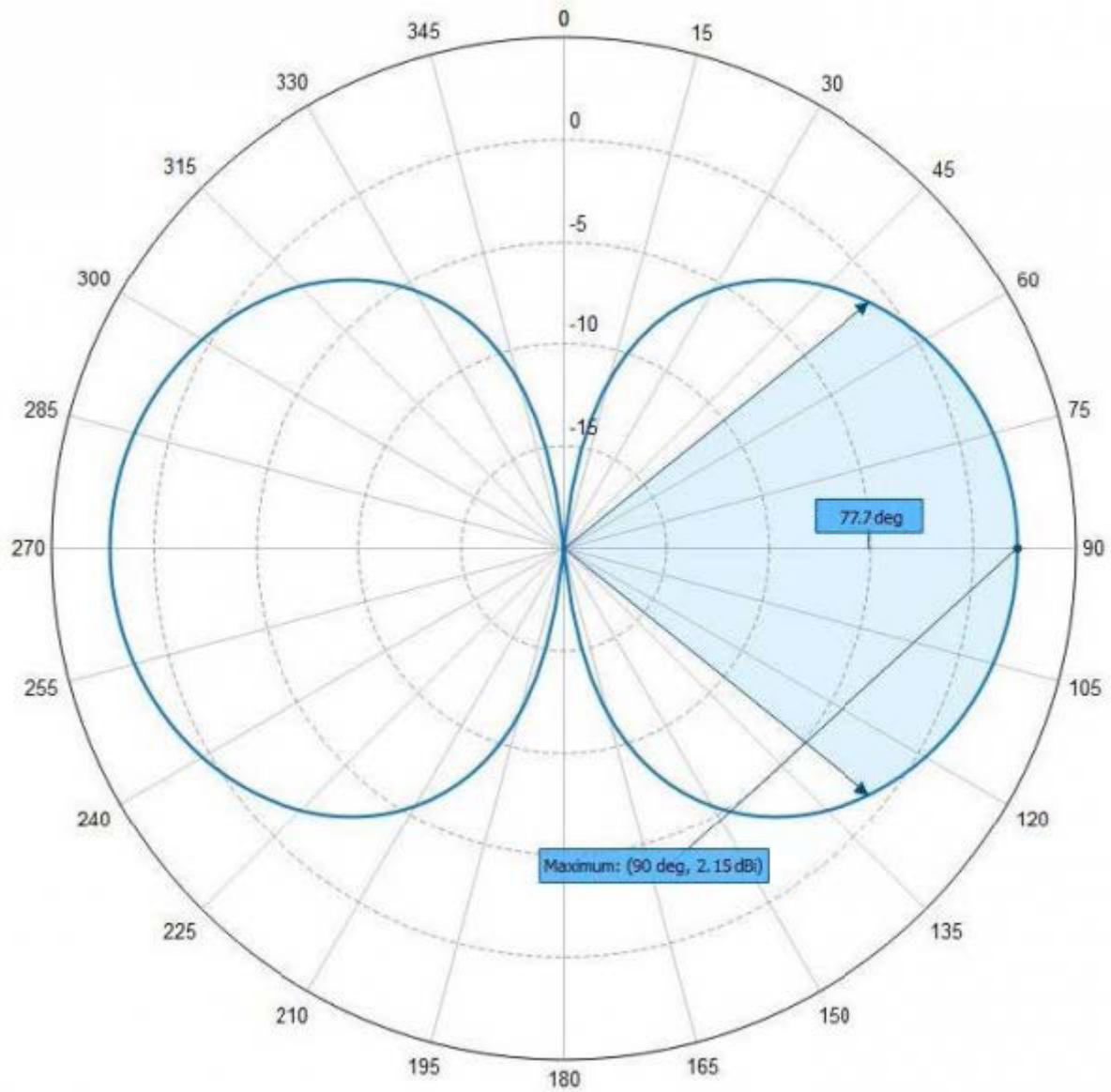
Product Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni		
Frequency Band	S		
Impedance	50		
Minimum Frequency	2.2 / 2,200	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Frequency Bandwidth	0.3 / 300	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	2.15	dBi	
Polarization	Vertical		
Color	Black		
Maximum RF Input Power	8	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	78	Degrees	
Spring	No		
Ground Plane Required	No		
RF Connector Type	TNC(m)		
RF Connector Finish	Black Chrome		
Product Height	5.88 / 149.35	inches / mm	±.13"
Product Diameter	0.562 / 14.275	inches / mm	+.020" / -.000"
Product Weight	1.50 / 42.52	oz / g	TBD

Filter Specifications

Parameter	Value	Units	Tolerance
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Filter Type	3mm 3-Pole Bandpass Filter (ceramic)		
Filter Frequency Band	S Band		
Filter Impedance	50	Ohms	
Filter Minimum Frequency	2200	MHz	
Filter Maximum Frequency	2500	MHz	
Insertion Loss	0.65	dB	Typical
Return Loss	14	dB	Over 100% of BW
Rejection 1	-55	dBc	Min @ 600 MHz
Rejection 2	-40	dBc	Min @ 1,390 MHz
Filter Power CW	8	Watts	
Filter Power Peak	10	Watts	
Filter Operating Temp	-40 to +85	C	



Elevation Pattern

Referenced to +5 dBi

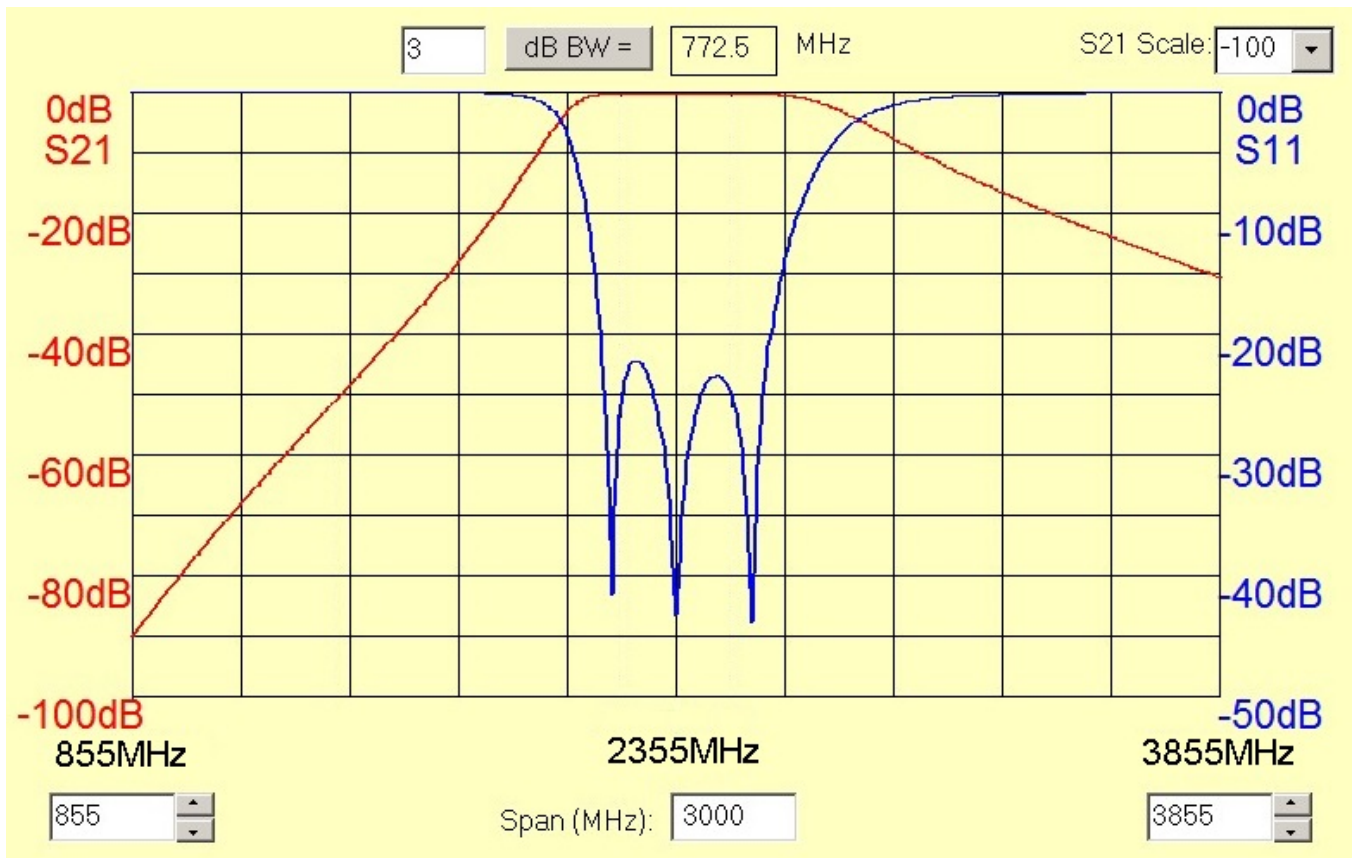
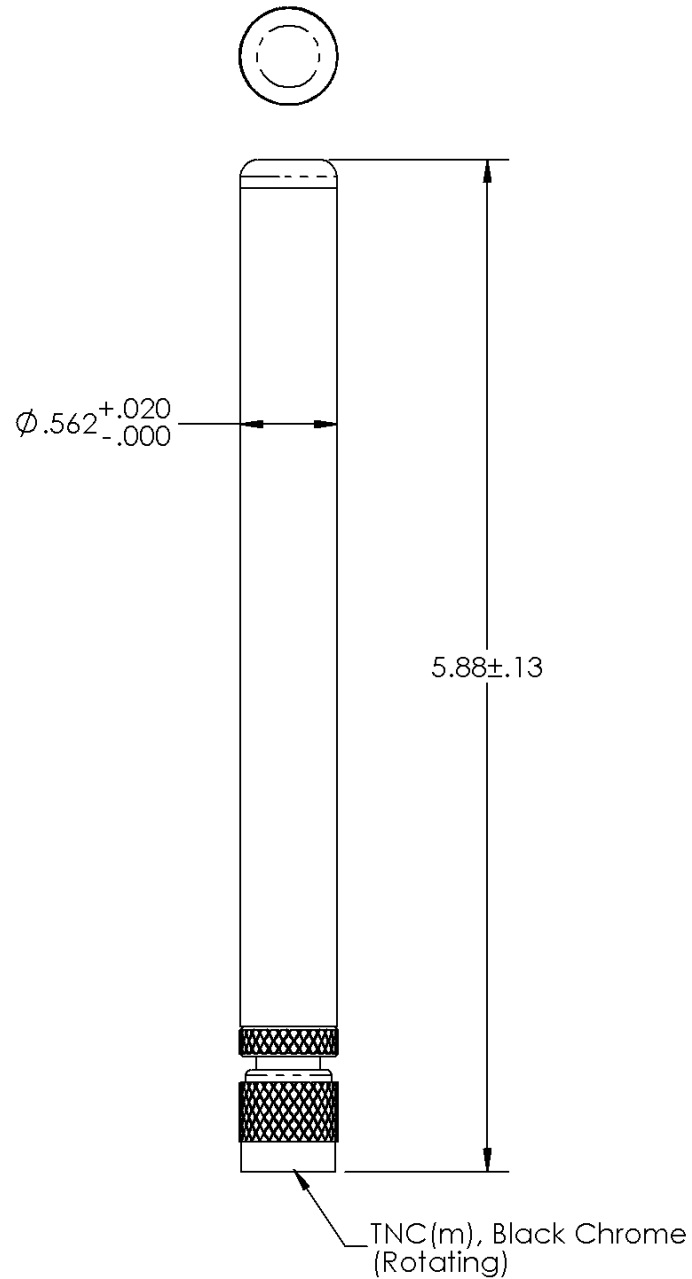


Image Filter



Engineering Drawing

All dimensions are in inches