

## Overview

Southwest Antennas Part # 1001-341 is a full wave dipole omni antenna with a frequency range of 5.745 to 5.825 GHz and 3.5 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 5.745 to 5.825 GHz operational frequency range, providing increased performance for attached radios.

1001-341 features an integrated 3" RF Gooseneck with black chrome RP-TNC(m) RF connector, which contributes to the improvement of RF link margin and overall antenna performance. Our proprietary antenna design and manufacturing process ensures optimum antenna RF performance.

The RP-TNC(m) RF connector can be easily secured or removed from equipment in the field by a single gloved hand, no tools required.

Antennas with integrated RF Goosenecks are ideal for handheld video receivers, portable radio systems, or any other mobile communication platform. The RF Gooseneck can be threaded through MOLLE gear or other tactical vest hardware for added security while moving.

A rugged flat black fiberglass radome provides protection from damage and gives the antenna a low visibility finish. The integrated RF Gooseneck allows the antenna to bend and deflect away from impacts during indoor or outdoor operations.

## Features:

- Broad Band Coverage
- Full Wave Dipole
- 5.745 - 5.825 GHz
- 3.5 dBi Omni Radiation Pattern
- Integrated 4-Pole RF Bandpass Filter
- 8W Power Handling
- Integrated RF Co-Axial Gooseneck
- Rugged Flat Black Fiberglass Radome
- End Cap Lettering "C"
- Black Chrome Non-Rotating RP-TNC(m) RF Connector



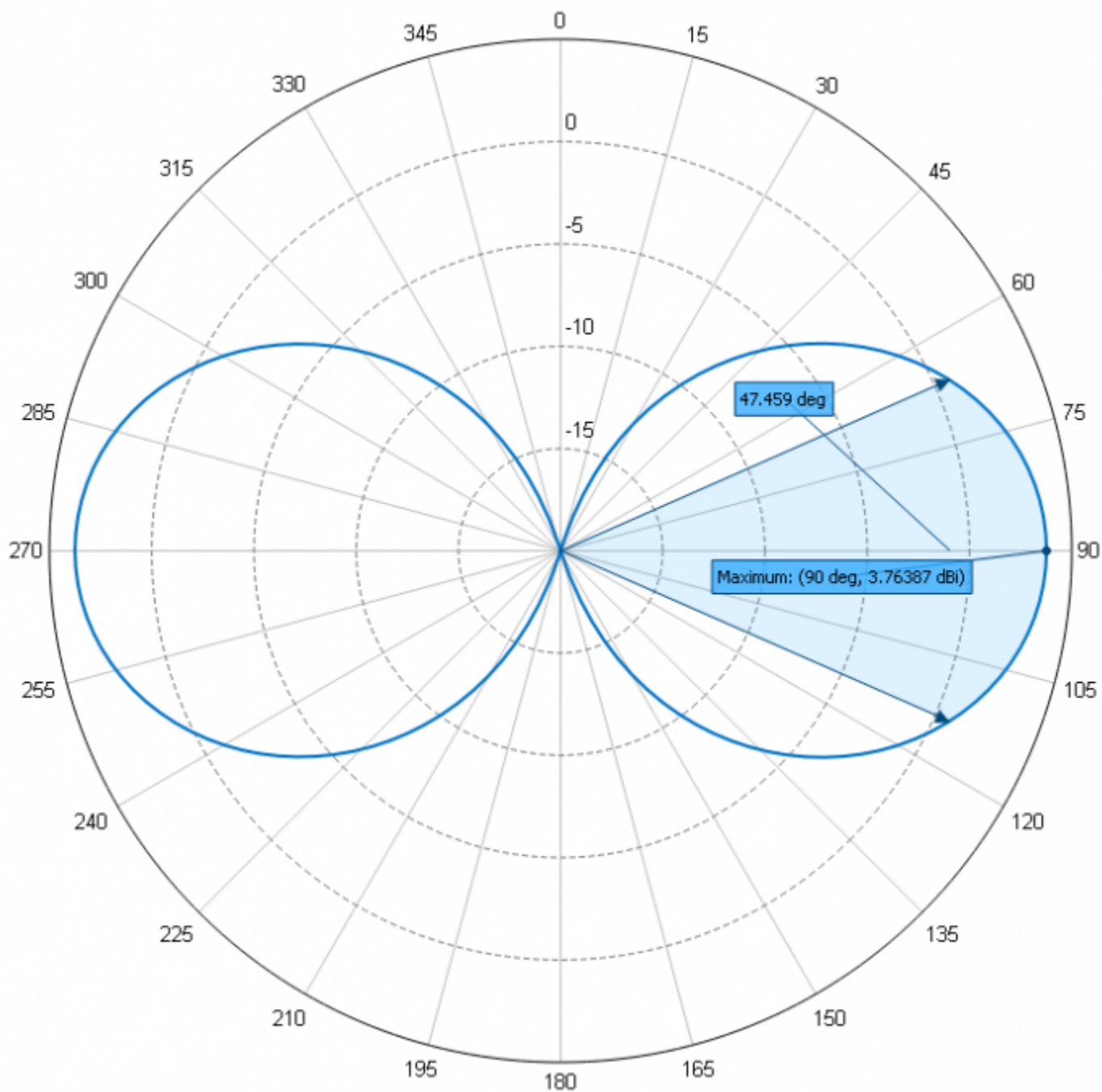
### Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	C		
Impedance	50	Ohms	
Minimum Frequency	5.745 / 5,745	GHz / MHz	
Maximum Frequency	5.825 / 5,825	GHz / MHz	
Frequency Bandwidth	0.08 / 80	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	3.5	dBi	
Polarization	Vertical		
Maximum RF Input Power	8	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	47	Degrees	
Antenna Labeling	Southwest Antennas Heat Shrink Label		
Color	Black		
Spring or Gooseneck	Gooseneck		
Gooseneck Length	3.00 / 76.20	inches / mm	±0.09"
Gooseneck Diameter	0.35 / 8.89	inches / mm	+0.010" / -0.005"
RF Connector Type	RP-TNC(m)		
RF Connector Features	Black Chrome		
Operating Temperature Range	-40 to +85	C	
Product Height	9.13 / 231.90	inches / mm	±0.15"

Parameter	Value	Units	Tolerance
<b>Product Diameter</b>	0.56 / 14.27	inches / mm	+0.02" / -.000"
<b>Product Weight</b>	2.0 / 57.3	oz / grams	

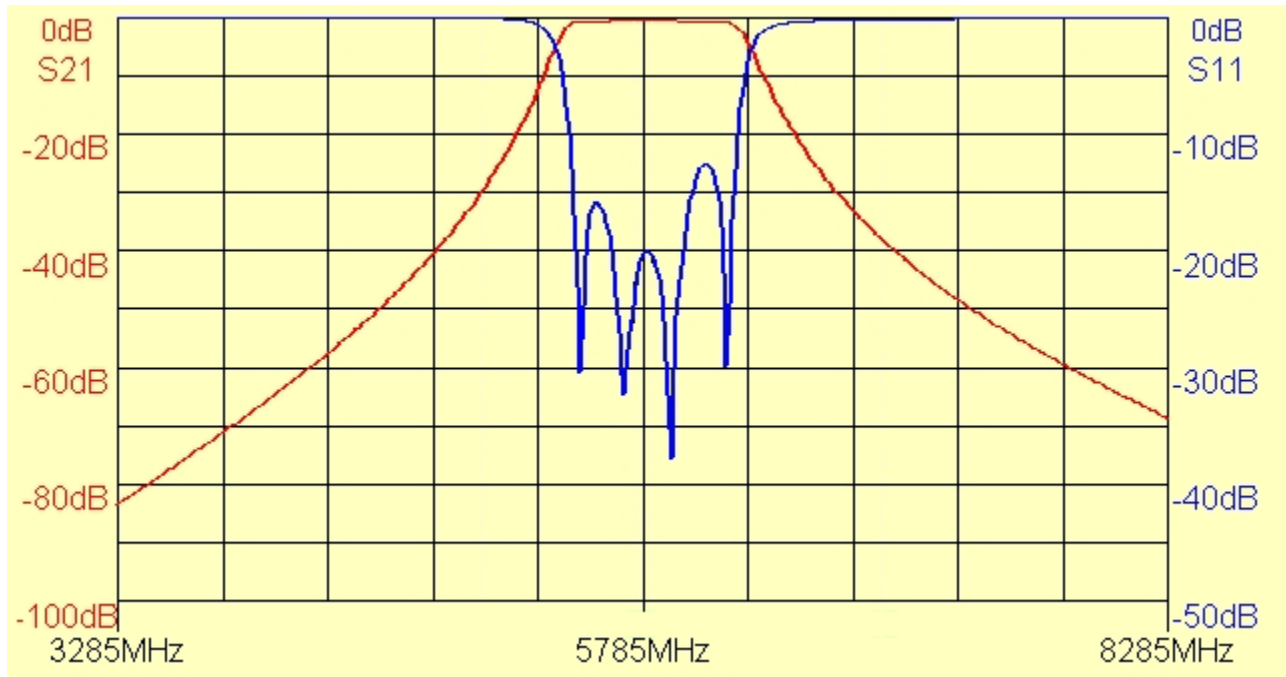
### Filter Specifications

Parameter	Value	Units	Tolerance
<b>Filter Type</b>	3mm 4-Pole Bandpass Filter (ceramic)		
<b>Fo</b>	5.833 / 5,833	GHz / MHz	
<b>Filter Frequency Band</b>	C Band		
<b>Filter Impedance</b>	50	Ohms	
<b>Insertion Loss</b>	<0.8	dBa	at Fo
<b>Return Loss</b>	10	dB	over 100% of the passband
<b>Rejection 1</b>	-25	dBc	Min DC to 5,025 MHz
<b>Rejection 2</b>	-25	dBc	Min 6,925 MHz to 11,666 MHz
<b>Filter Power CW</b>	8	Watts	
<b>Filter Power Peak</b>	10	Watts	
<b>Operating Temp</b>	-40 to +85	C	
<b>CH1 Pass Band</b>	5.75 – 5.83 5,745 – 5,825	GHz MHz	

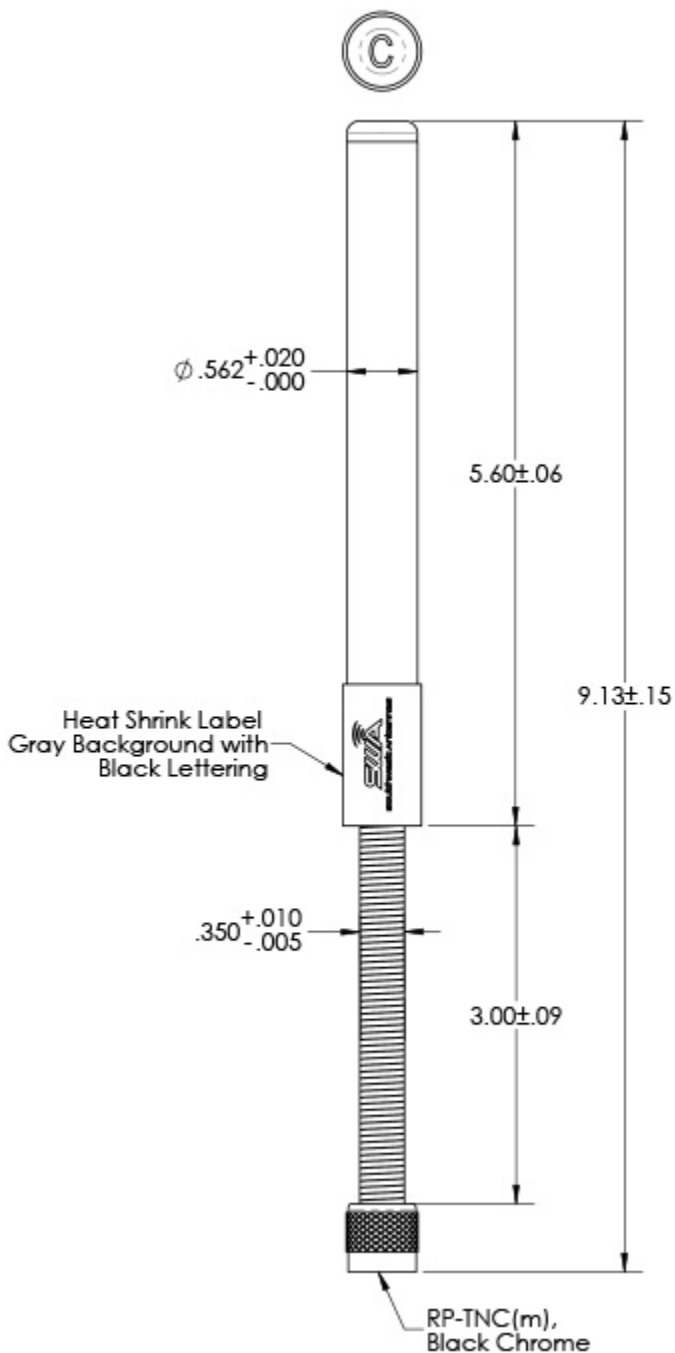


**Elevation Pattern**

Referenced to +5dBi



**Filter Response Plot**



**Engineering Drawing**

All dimensions are in inches