

## Overview

Southwest Antennas Part # 1085-148 is an omni-directional antenna featuring a two section collinear design that covers 2.2 - 2.5 GHz. This antenna offers 4 dBi of peak gain and features a weatherproof sealed spring base with a black chrome TNC(m) RF connector.

The spring is fully sealed to prevent rain, dust, mud, and other debris from impacting antenna performance and fouling the spring, and gives the antenna flexibility to deflect/bend with impacts and return to its original vertical position. This can minimize stress placed on the antenna and radio connection, and can help prevent damage to both in the event of an impact.

## Features:

- Broad Band Coverage
- 2 Section Collinear Design
- 2.2 - 2.5 GHz
- 4.0 dBi Omni Radiation Pattern
- 50W Power Handling
- Rugged Construction
- Low Visibility Black Fiberglass Radome
- Weatherproof Sealed Spring Base
- Black Chrome TNC(m) RF Connector
- End Cap Lettering "S"



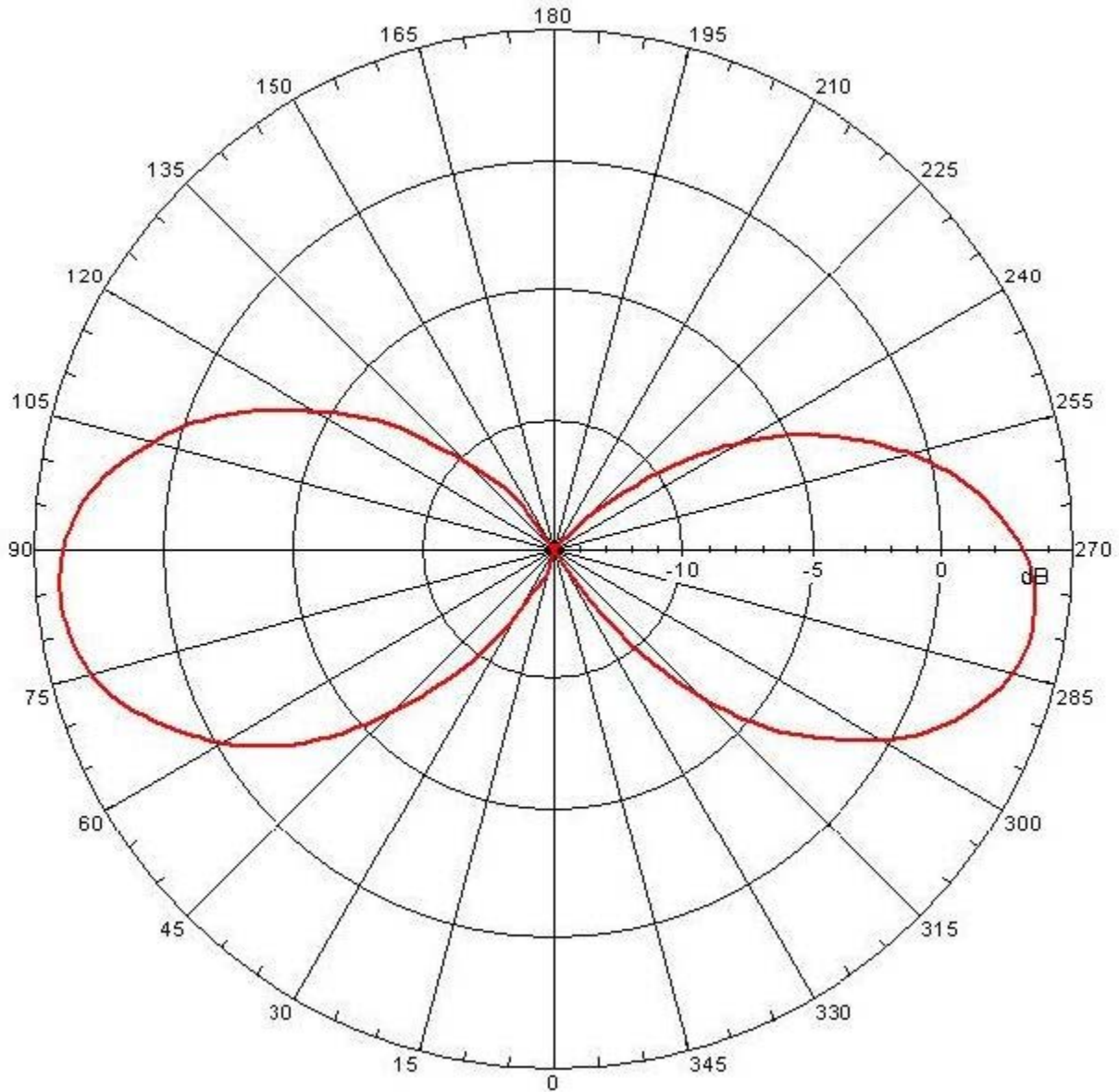
### Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S		
Impedance	50	Ohms	
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	4	dBi	
Polarization	Vertical		
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	37	Degrees	
Ground Plane Required	No		
Radome Material	Fiberglass		
Color	Black		
Spring or Gooseneck	Spring		
Spring Length	0.750 / 19.050	inches / mm	
Spring Diameter	0.750 / 19.050	inches / mm	
Spring Bend	±45	Degrees	Maximum (exceeding ±45 degrees may damage spring weather seal)
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	TNC(m)		
RF Connector Features	Black Chrome		



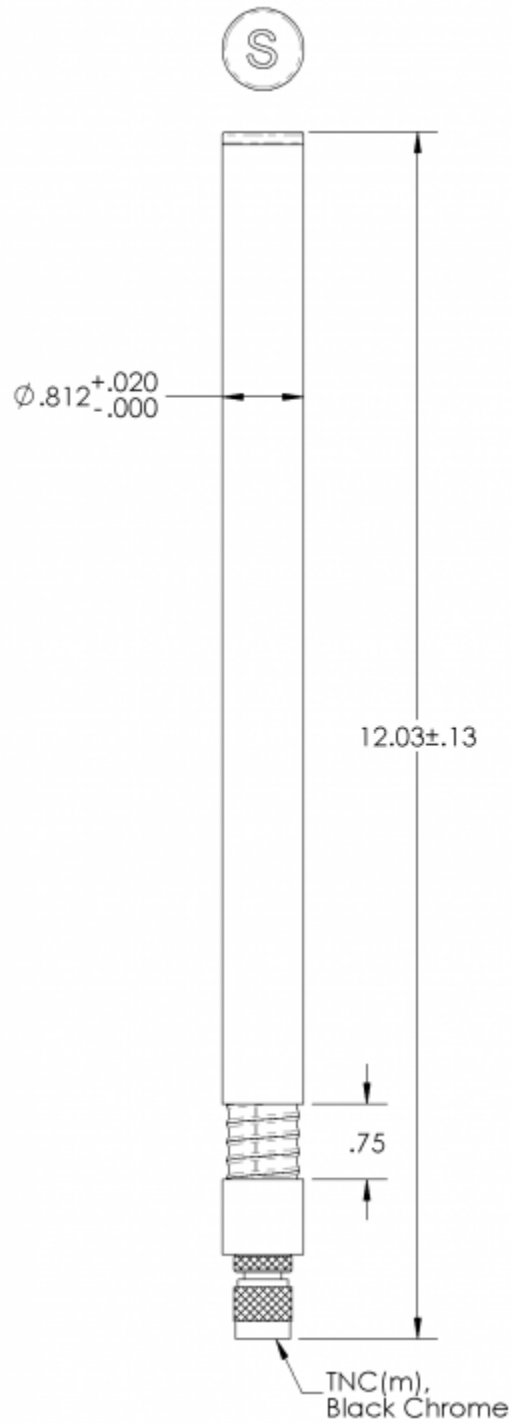
Part # 1085-148  
Omni Antenna, 2 Section Collinear, 2.2 - 2.5 GHz, 4 dBi, Weatherproof  
Sealed Spring Base

Parameter	Value	Units	Tolerance
Operating Temperature Range	-40 to +85	C	
Product Height	12.030 / 305.562	inches / mm	±.13"
Product Diameter	0.812 / 20.625	inches / mm	+.020" / -.000"
Product Weight	4.48 / 127.01	oz / grams	



**Elevation Pattern**

Referenced to 4 dBi



### Engineering Drawing

All dimensions are in inches