

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 Ultra-Flex sealed spring base with a black chrome TNC(m) RF connector. The Ultra-Flex spring is fully sealed to prevent rain, dust, and other debris from impacting antenna performance, which is also fully submersible once securely mated to a radio.

The Ultra-Flex spring gives the antenna flexibility to deflect/bend with impacts and return to its original vertical position, minimizing stress placed on the antenna and radio connection, and can help prevent damage to both in the event of an impact. A G10 fiberglass radome holds up to abuse in the field, and a low-glare black finish and black chrome TNC(m) RF connector helps the antenna blend into surroundings and not draw attention.

Features:

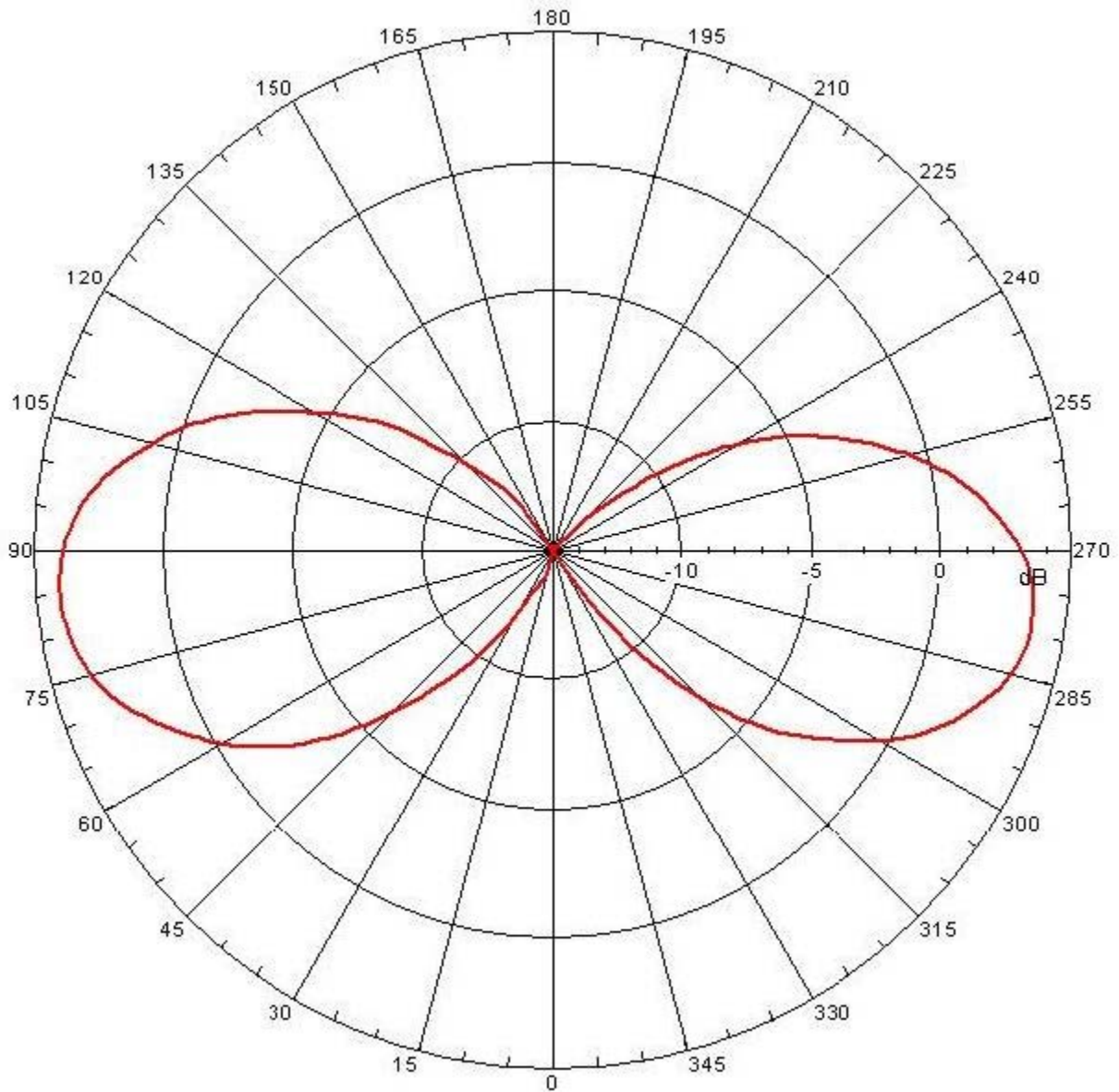
- Broad Band Coverage
- 2 Section Collinear Design
- 2.2 - 2.5 GHz
- 4.0 dBi Omni Radiation Pattern
- 50W Power Handling
- Rugged Construction
- Low Visibility Black Fiberglass Radome
- Sealed Spring Base With Weatherproof Heatshrink Cover
- Black Chrome TNC(m) RF Connector
- End Cap Lettering "S"



Antenna Specifications

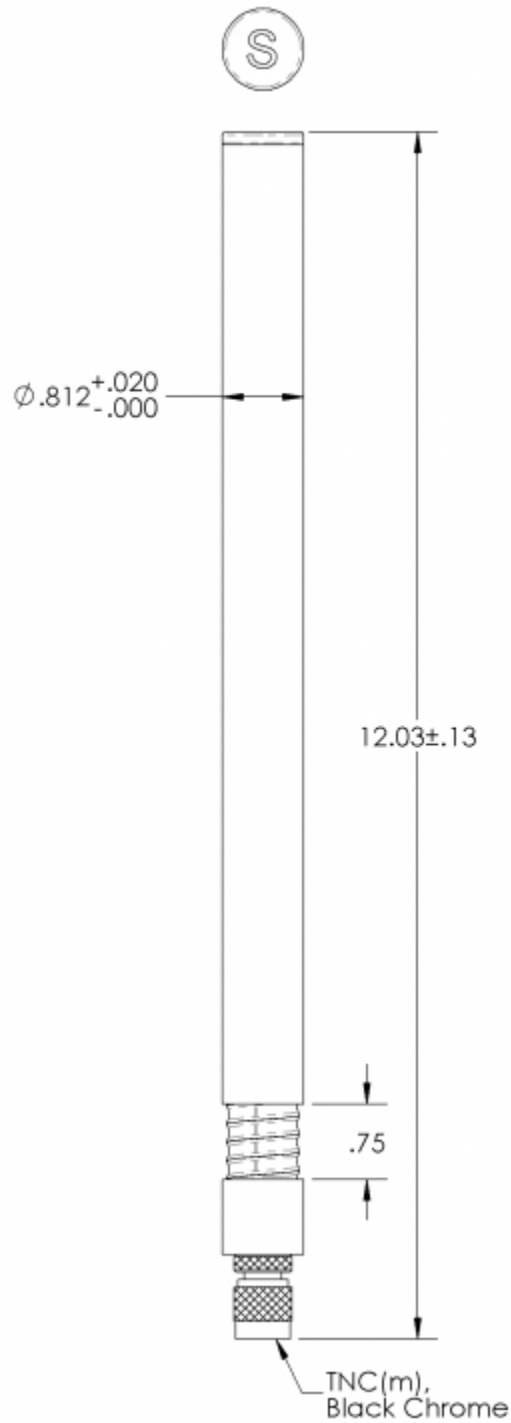
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S		
Impedance	50	Ohms	
Minimum Frequency	2.2 / 2,200	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Frequency Bandwidth	0.3 / 300	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Gain	4	dBi	
Polarization	Vertical		
Horizontal (AZ) Beamwidth	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	
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	TNC(m)		
RF Connector Finish	Black Chrome		
Operating Temperature Range	-40 to +85	C	

Parameter	Value	Units	Tolerance
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