

Overview

Southwest Antennas Part # 1085-131 is a full wave dipole Omni antenna that operates in the 1.35 GHz - 1.39 GHz frequency band and features 4 dBi of gain. Overall antenna length is 12.47 inches, with an outside diameter of 0.812 inches. This antenna is ideal for military or law enforcement applications, and can be paired with multi-antenna MIMO / MANET radio systems or used in single antenna system configurations.

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:

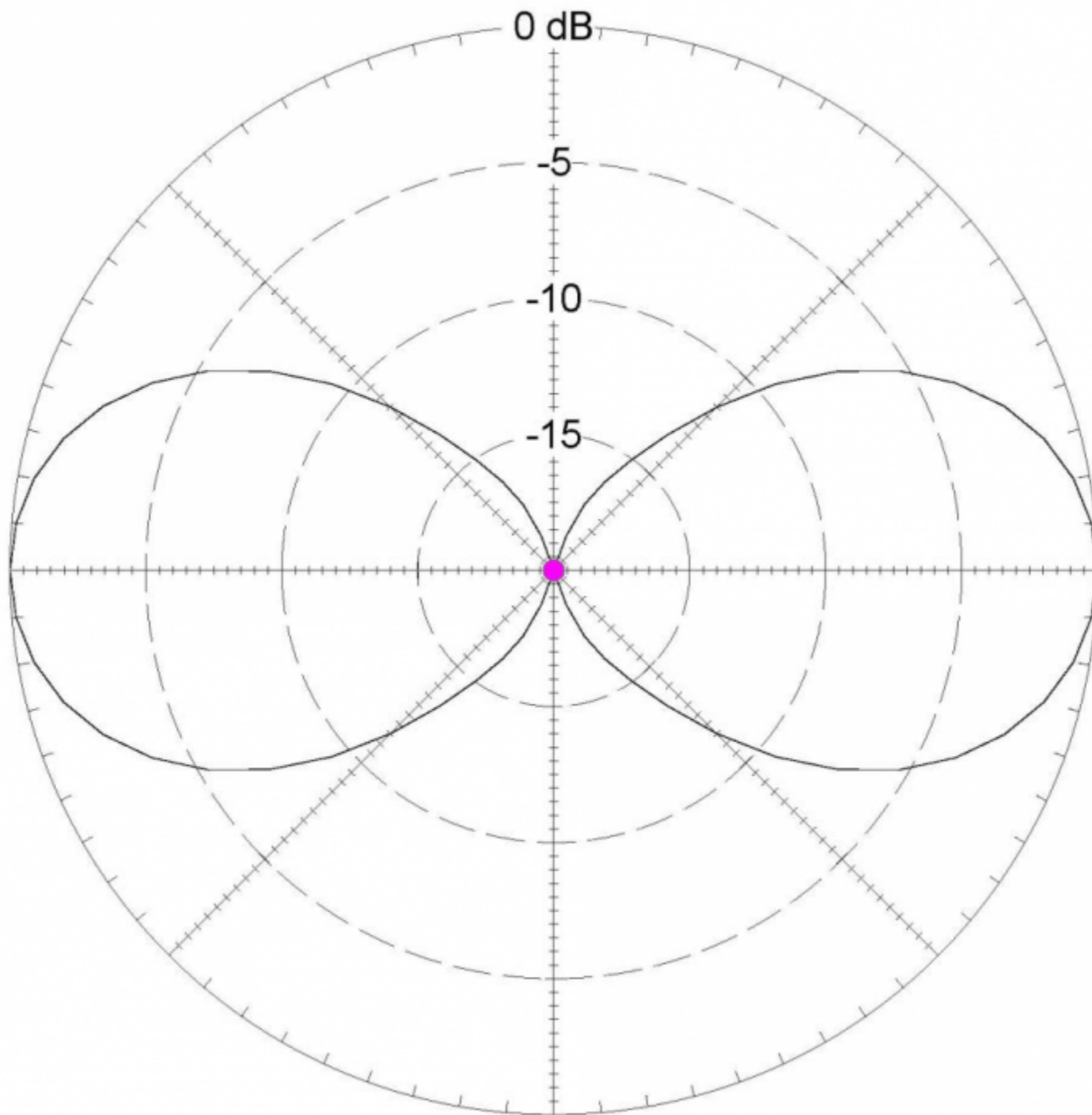
- Broad Band Coverage
- Full Wave Dipole
- 1.35 - 1.39 GHz
- 50W power handling
- 4 dBi Omni Radiation Pattern
- Rugged Construction Low-Glare Black Radome
- End Cap Lettering "L"
- Sealed Spring Base With Weatherproof Heatshrink Cover
- Black Chrome TNC(m) RF Connector



Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	L		
Impedance	50	Ohms	
Minimum Frequency	1.35 / 1,350	GHz / MHz	
Maximum Frequency	1.39 / 1,390	GHz / MHz	
Frequency Bandwidth	0.04 / 40	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	4	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	45	Degrees	
Ground Plane Required	No		
Color	Black		
Spring Length	0.75 / 19.05	inches / mm	
Spring Diameter	0.75 / 19.05	inches / mm	
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	TNC(m)		
RF Connector Features	Black Chrome		
Operating Temperature Range	-40 to +85	C	
Product Height	12.50 / 317.50	inches / mm	±.13"

Parameter	Value	Units	Tolerance
Product Diameter	0.81 / 20.62	inches / mm	+.020" / -.000"
Product Weight	4.6 / 130.4	oz / grams	



Elevation Pattern

Referenced to 4 dBi



Engineering Drawing

All dimensions are in inches