

Overview

Southwest Antennas Part # 1001-236 is an omni-directional antenna that features an operational frequency range of 2.5 - 2.7 GHz with 2.0 dBi of peak gain, and a rugged black G10 fiberglass radome with black chrome Type-N(m) Non-Rotating RF connector.

This Ultra-Flex omni antenna is a rugged, small form factor dipole antenna that features an innovative environmentally-sealed spring base, giving the antenna flexibility to deflect/bend with impacts and return to its original vertical position. The integrated spring design minimizes stress placed on the antenna and radio RF connector, and can help prevent damage to both in the event of an impact.

The 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 G10 fiberglass radome holds up to abuse in the field, and a low-glare black finish helps the antenna blend into surroundings and not draw attention during tactical operations.

Features

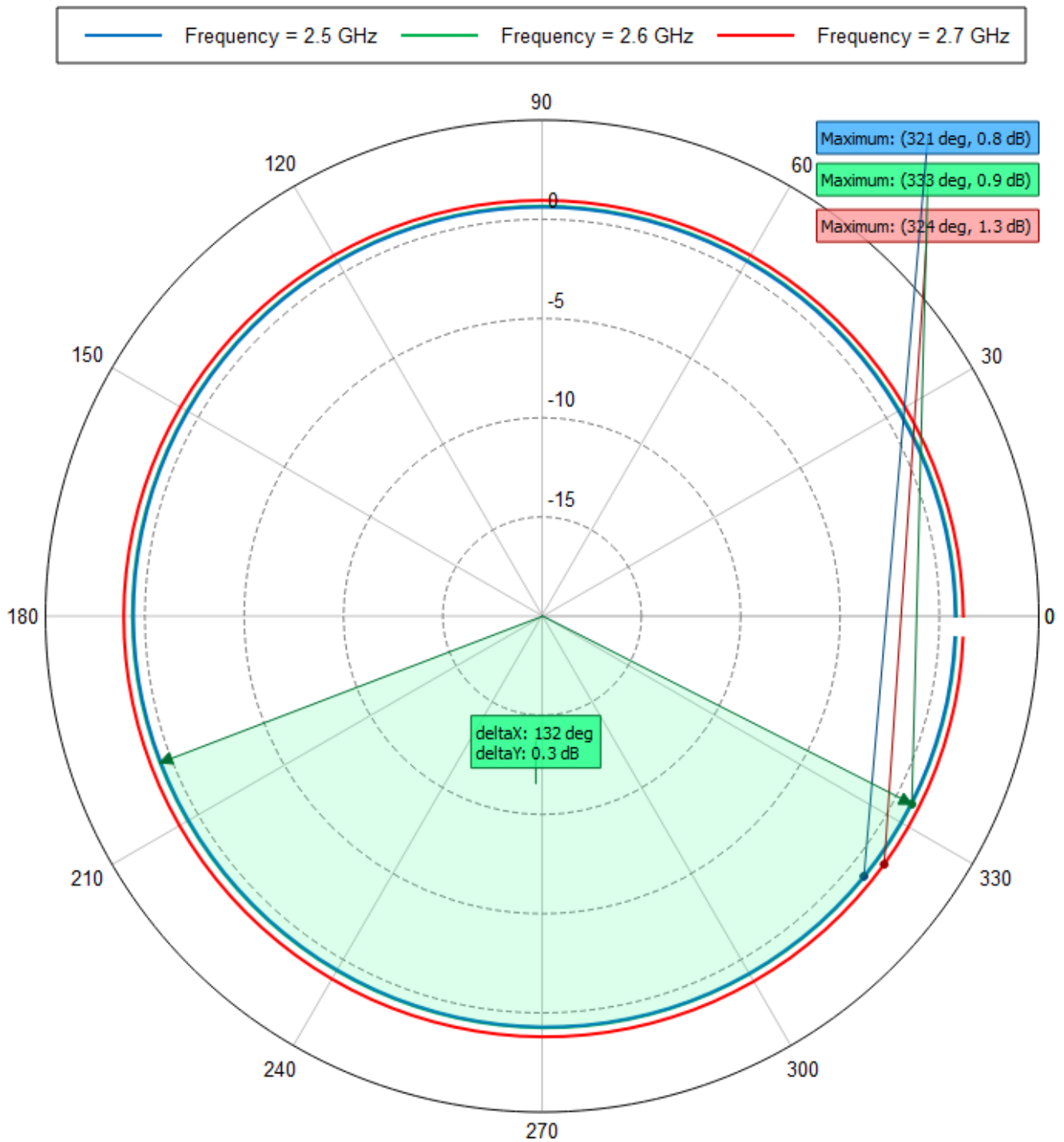
- 2.5 - 2.7 GHz
- 50W Power Handling
- Rugged Construction
- Low Glare Black Fiberglass Radome
- Type-N(m) Non-Rotating Black Chrome RF Connector
- Ultra-Flex Waterproof Spring Base
- Center Frequency Heat Shrink Label



Product Specifications

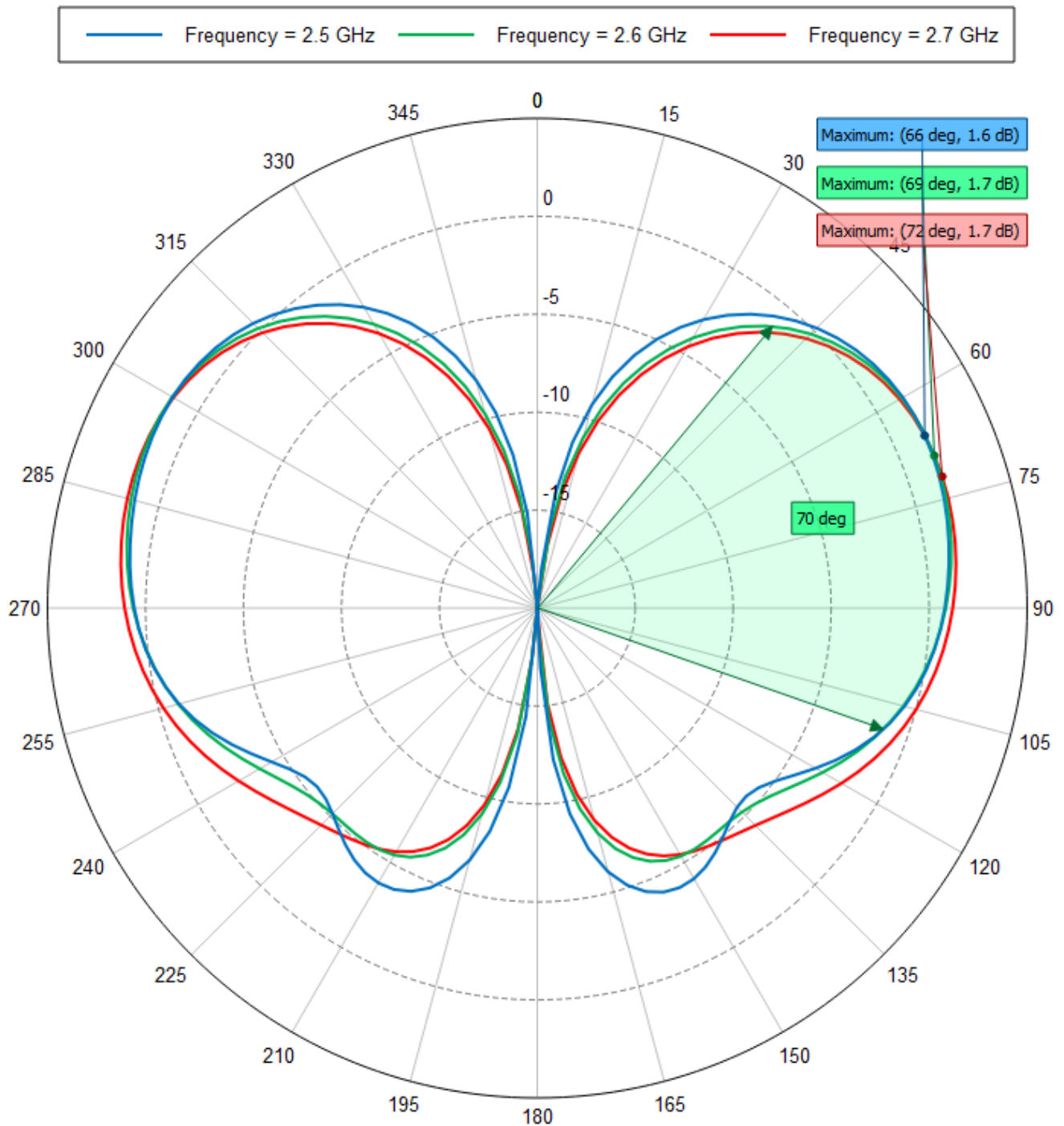
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S		
Impedance	50		
Minimum Frequency	2.5 / 2,500	GHz / MHz	
Maximum Frequency	2.7 / 2,700	GHz / MHz	
Frequency Bandwidth	0.2 / 200	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	2.00	dBi	
Polarization	Vertical		
Color	Black		
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	69 - 73	Degrees	
Antenna Labeling	Heat shrink label with logo and operating frequency		
Radome Material	Fiberglass G10		
Spring Or Gooseneck	Spring		
Spring	Yes		
Spring Length	1 / 25.4	inches / mm	
Spring Diameter	0.5 / 12.7	inches / mm	
Spring Bend	±90	Degrees	Maximum
Gooseneck	No		
Ground Plane Required	No		
Maximum Wind Velocity	161	kph	

Parameter	Value	Units	Tolerance
RF Connector Type	Type-N(m) Non-Rotating		
RF Connector Finish	Black Chrome		
Operating Temperature Range	-40 to +85	C	
Product Height	6.25 / 158.75	inches / mm	±0.13"
Product Diameter	0.562 / 14.275	inches / mm	+0.02" / -.000"
Product Weight	2.50 / 70.87	oz / g	



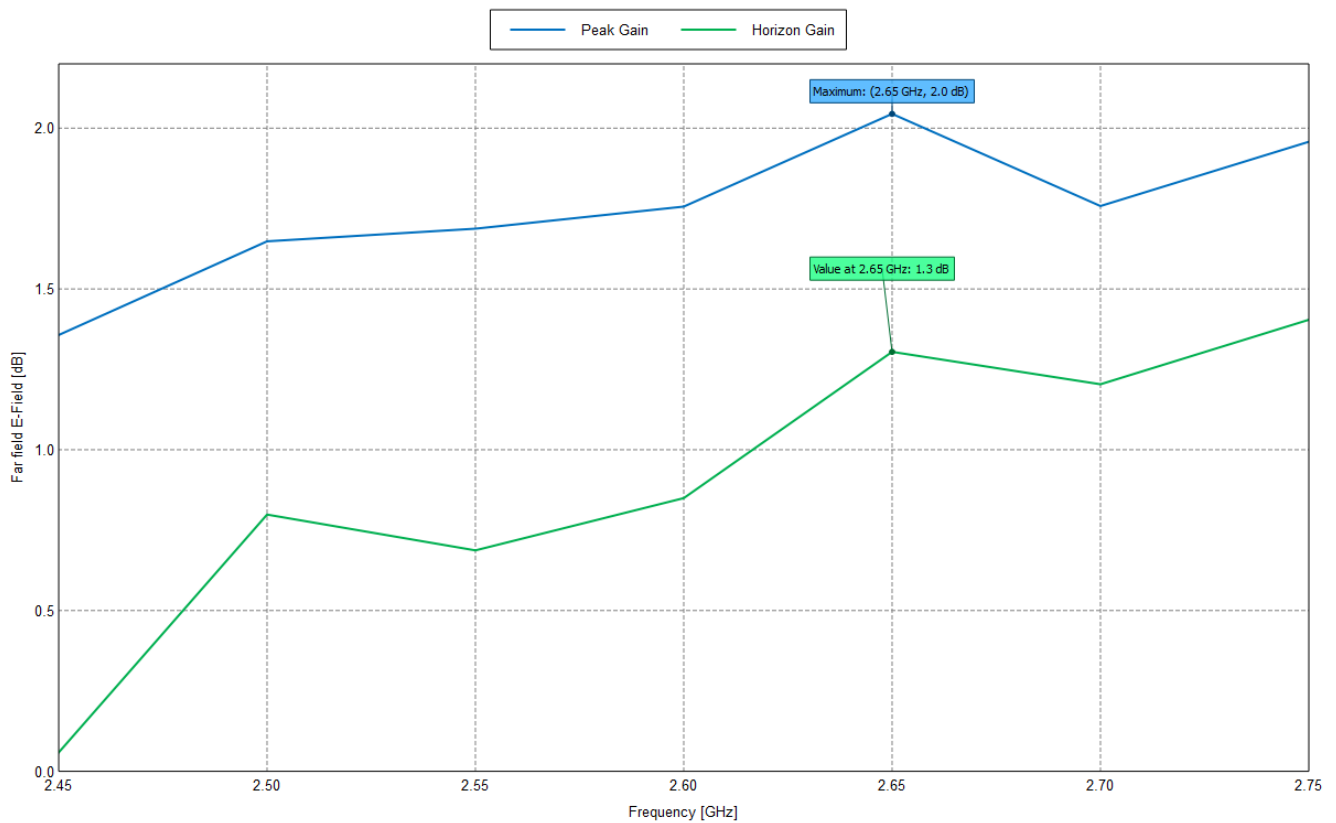
Azimuth Pattern

Referenced to +5 dBi

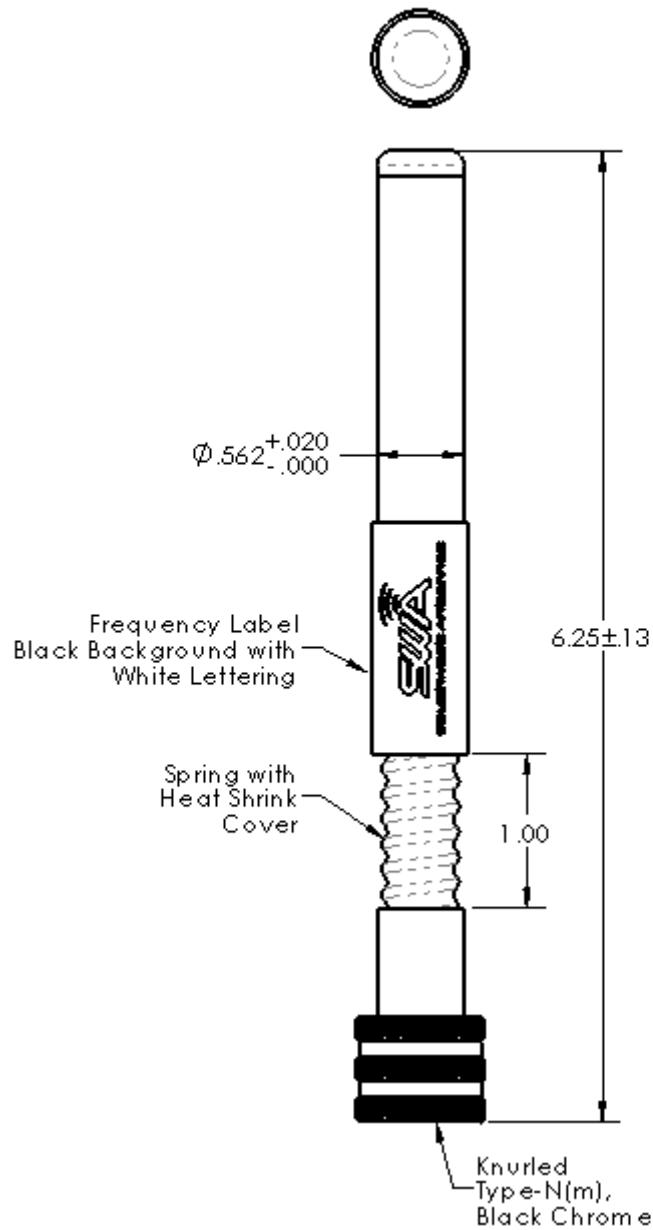


Elevation Pattern

Referenced to +5 dBi



Gain vs. Frequency Plot



Engineering Drawing

All dimensions are in inches