

Overview

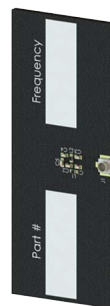
Southwest Antennas Part # 1066-011 is an omnidirectional concealment antenna, designed to be integrated inside of other devices. The antenna can be tuned to optimize performance inside of specific concealments.

Features:

- Small form factor
- High performance
- 2.4 - 2.5 GHz
- Tuned & optimized per specific concealment
- 1.8 dBi omni radiation pattern
- Adjustable onboard tuning components

Note 1: Antenna pattern shown in free space. Antenna pattern may differ when antenna is placed in concealment. Vertical polarization is shown on page 1.

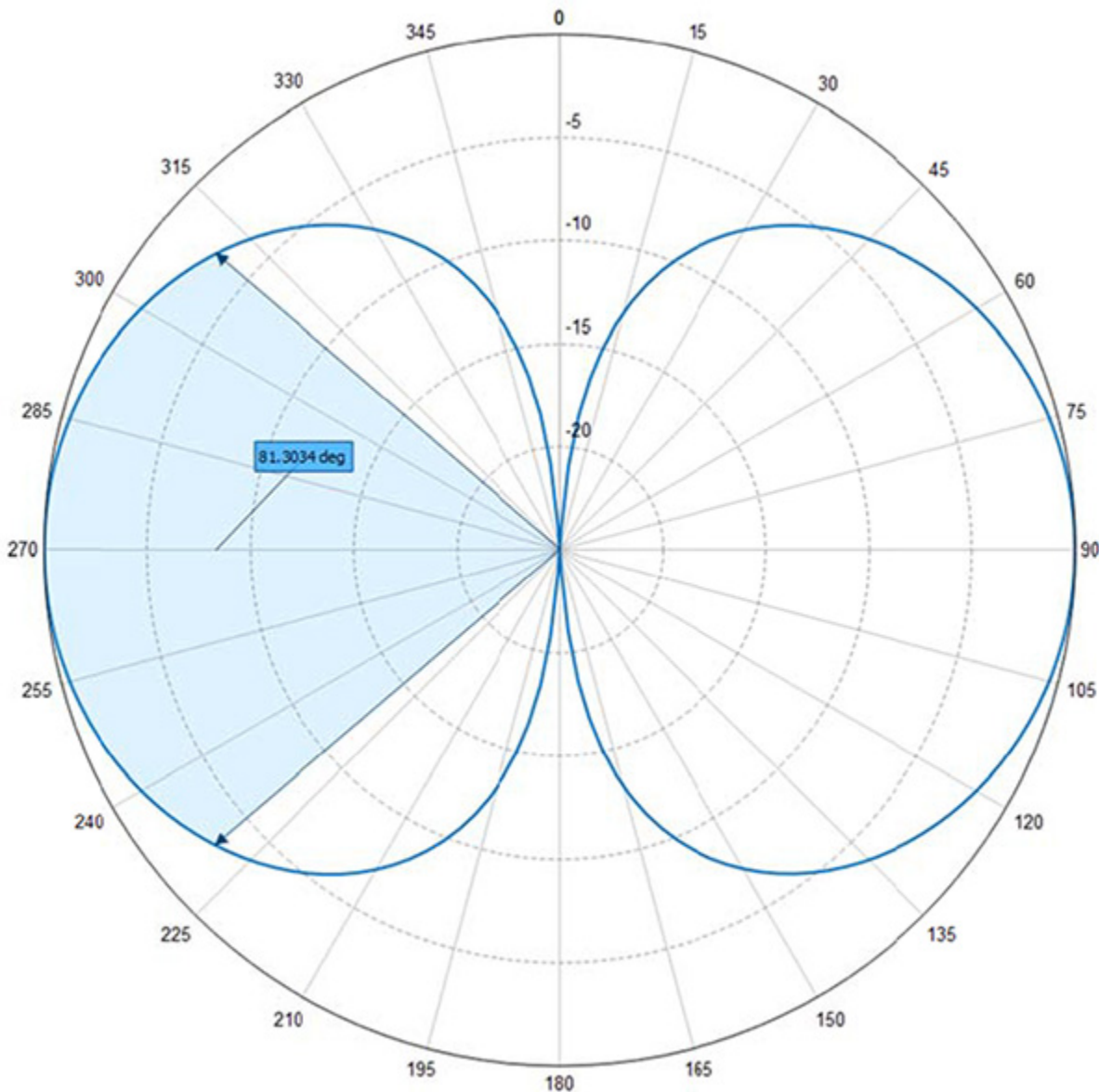
Note 2: Antenna performance is highly dependent on proper use of Velcro dots. Velcro dots are used to stand antenna off of concealment inner wall / substrate material far enough to achieve optimum RF performance.



Antenna Specifications

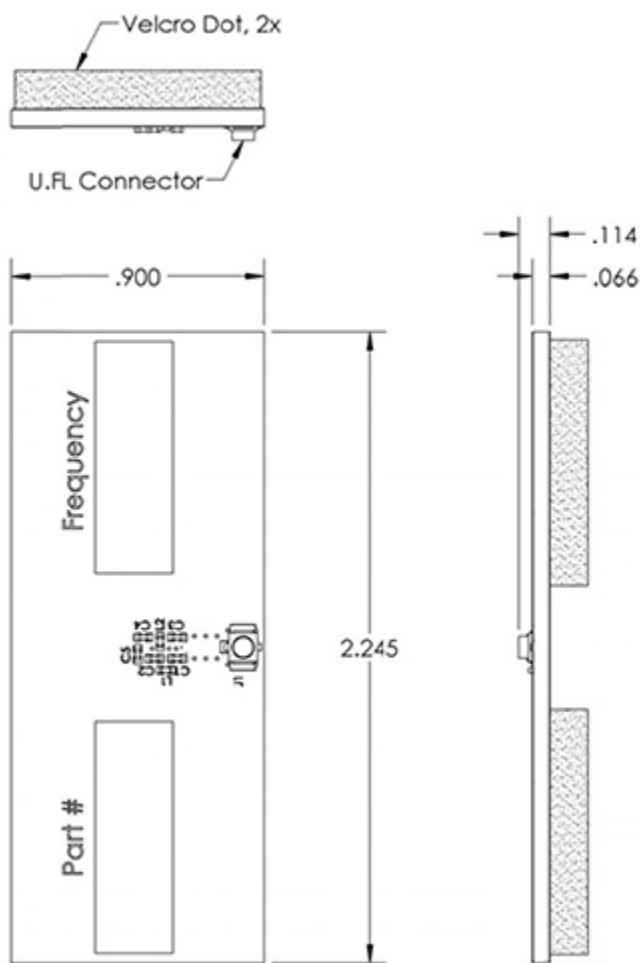
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni		
Frequency Band	S		
Impedance	50	Ohms	
Minimum Frequency	2.4 / 2,400	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Frequency Bandwidth	0.1 / 100	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	1.8	dBi	±.3 dB tuned inside concealment
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	81	Degrees	
Ground Plane Required	No		
Color	PCB Black Solder Mask with White Silkscreen		
Mount Style	2x Velcro Dots		
RF Connector Type	U.FL		
IP Rating	IP66 when installed inside compliant concealment		
Operating Temperature Range	-40 to +85	C	
Product Length	2.25 / 57.02	inches / mm	±.031"
Product Width	0.90 / 22.86	inches / mm	±.031"
Product Height	0.06 / 1.63	inches / mm	±.031"

Parameter	Value	Units	Tolerance
Product Weight	0.2 / 5.1	oz / grams	



Elevation Pattern

Referenced to 1.8 dBi



Engineering Drawing

All dimensions are in inches