

Overview

Southwest Antennas Part # 1066-102 is a dual-band omni-directional concealment antenna that operates at 2.2 - 2.5 GHz or 4.4 - 5.9 GHz, designed to be integrated inside other devices. The antenna can be tuned to optimize performance inside of specific concealments and features a right angle MMCX(m) RF connector with 9.06 in (230mm) of RG-178 cable.

Features:

- Dual-Band Coverage:
 - 2.2 - 2.5 GHz
 - 4.4 - 5.9 GHz
- Small Form Factor
- High Performance
- 50W Power Handling
- 1.8 dBi Omni Radiation Pattern
- MMCX(m) Right Angle RF Connector
- 9.06 in (230mm) RG-178 Cable
- Ideal for Concealment & Surveillance Applications

Note 1: Antenna horizontal and vertical beamwidth measured in free space. Antenna pattern may differ when antenna is placed in concealment.

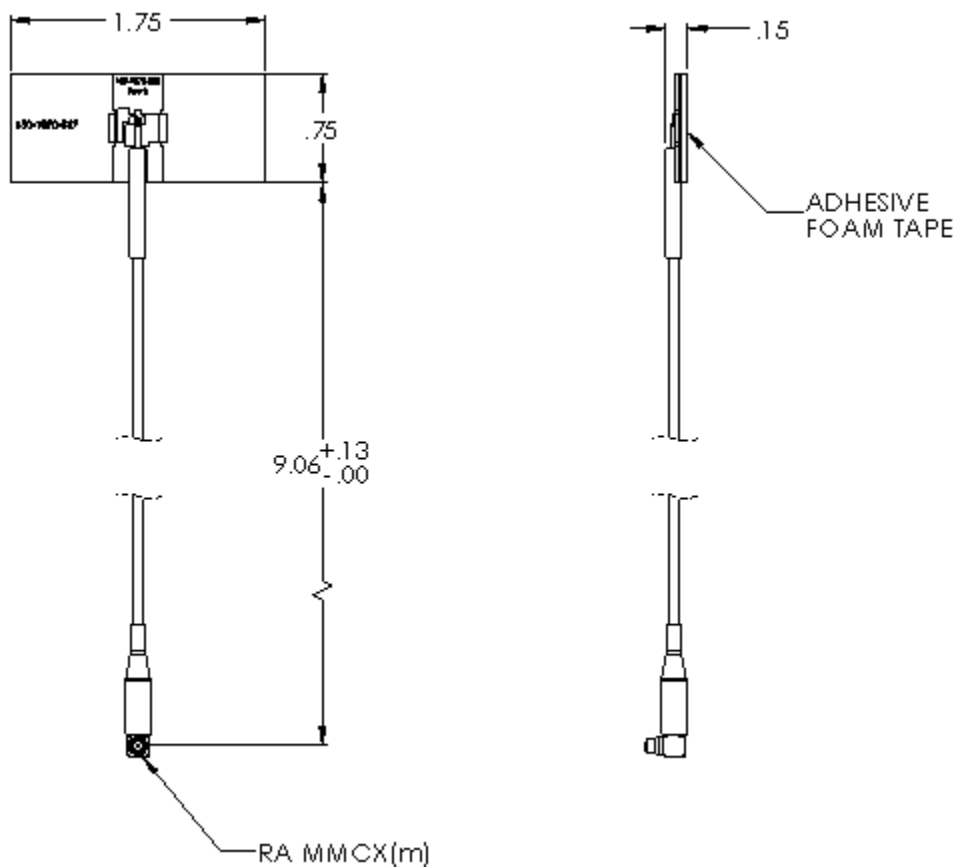
Note 2: Antenna performance is highly dependent on proper use of adhesive backing to stand antenna off of concealment inner wall / substrate material far enough to achieve optimum RF performance.



Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	S & C		
Impedance	50	Ohms	
Frequency Range 1	2.2 – 2.5 2,200 – 2,500	GHz MHz	
Frequency Range 2	4.4 – 5.9 4,400 – 5,900	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		
Mount Style	Adhesive Foam Tape		
RF Connector Type	Right Angle MMCX(m)		
RF Cable Type	RG-178		
RF Cable Length	9.06 / 230.12	inches / mm	+ .13" / -.00"
IP Rating	IP66 when installed inside compliant concealment		
Operating Temperature Range	-40 to +85	C	
Product Length	1.75 / 44.45	inches / mm	
Product Width	0.75 / 19.05	inches / mm	

Parameter	Value	Units	Tolerance
Product Height	0.15 / 3.81	inches / mm	
Product Weight	0.1 / 2.3	oz / grams	



Engineering Drawing

All dimensions are in inches