

Overview

Southwest Antennas Part # 1066-029 is a dual band L/S omni-directional half wave dipole concealment antenna that operates in the 1.7 - 1.9 GHz and 2.2 - 2.3 GHz frequency bands. The product is designed to be integrated inside of other devices. The antenna can be tuned to optimize performance inside of specific concealments. This antenna features 6.7 inches of RF cable and a SMP(f) RF connector.

Features

- Dual Band Coverage
 - 1.7 - 1.9 GHz
 - 2.2 - 2.3 GHz
- Half Wave Dipole Design
- 3 dBi Omni Radiation Pattern
- Small Form Factor
- High Performance
- Vertical Polarization
- Extremely Light Weight
- Easily Concealed
- SMP(f) RF Connector
- Robust Heat Shrink Strain Relief Epoxied to RF Cable
- On-Board Adjustable Matching Circuit Allows for Antenna Feed Point Tuning for Custom Applications
- Ideal for Concealment & Surveillance Applications

Markets and applications include:

- Military / Defense
- Law Enforcement
- Surveillance
- Security

Note 1: Antenna horizontal and vertical beamwidth measured in free space. Antenna pattern may differ when antenna is placed in concealment. Long axis of antenna corresponds to vertical polarization.

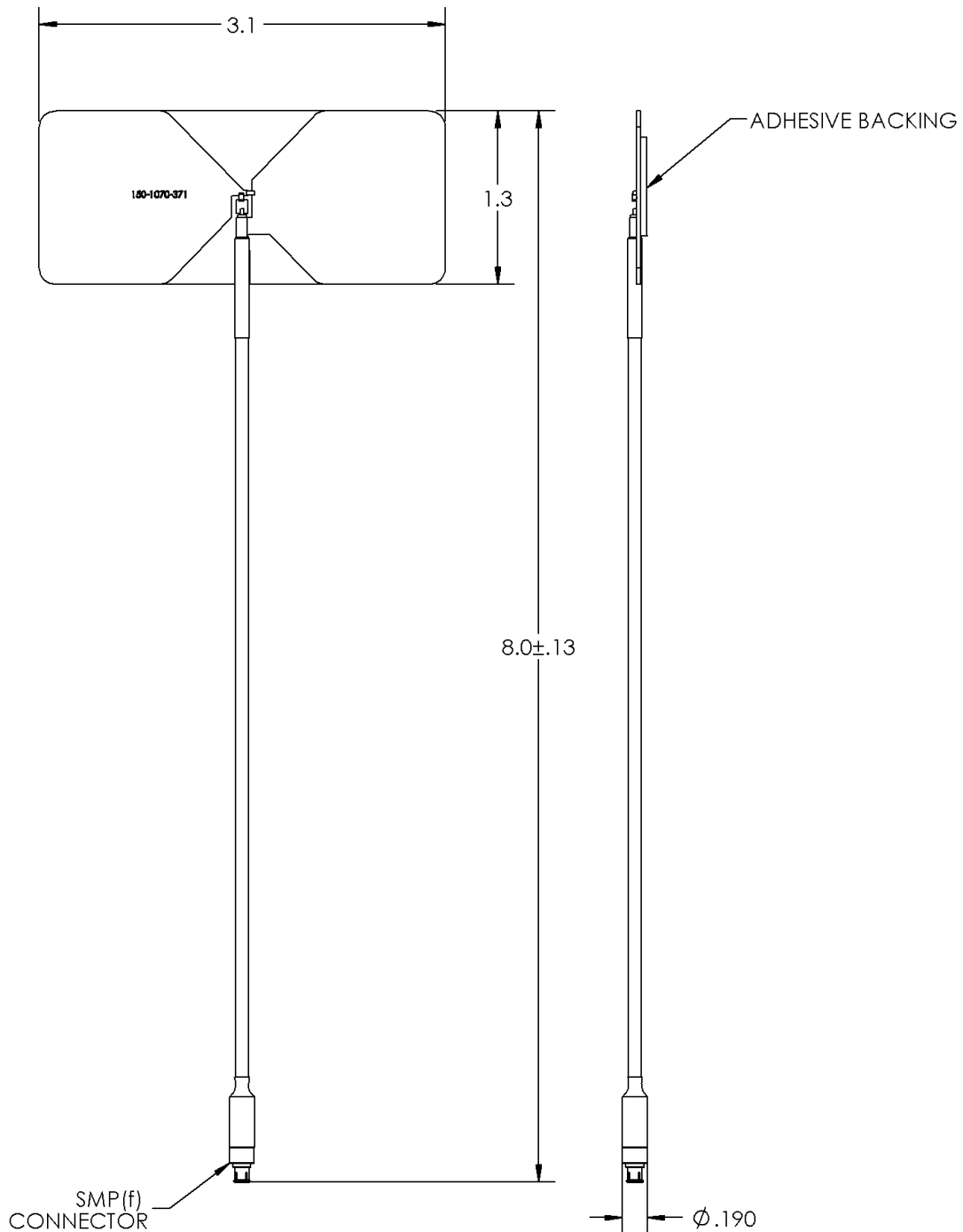
Note 2: Antenna performance is highly dependent on proper use of adhesive backing to stand antenna off of concealment inner wall / substrate material far enough to achieve optimum RF performance.



Product Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	L & S		
Impedance	50		
Minimum Frequency	1.7 / 1,700	GHz / MHz	
Maximum Frequency	1.9 / 1,900	GHz / MHz	
Minimum Frequency 2	2.2 / 2,200	GHz / MHz	
Maximum Frequency 2	2.3 / 2,300	GHz / MHz	
Maximum VSWR	2.0:1	Ratio	
Maximum Gain	3.00	dBi	
Polarization	Vertical		
Maximum Output Power	10	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	81	Degrees	
Spring	No		
Gooseneck	No		
Ground Plane Required	No		
Mount Style	Double Stick Tape		
RF Connector Type	SMP(f)		
RF Cable Length	6.7 / 170.2	inches / mm	
Operating Temperature Range	-40 to +85	C	
Product Length	3.1 / 78.7	inches / mm	
Product Width	1.3 / 33.0	inches / mm	

Parameter	Value	Units	Tolerance
Product Height	.063 / 1.600	inches / mm	
Product Weight	1.00 / 28.35	oz / g	



Engineering Drawing

Dimensions are in inches