

Overview

Southwest Antennas Part # 1066-028 is a 900 MHz ISM Band omni-directional half wave dipole concealment antenna that operates in the 902 - 928 MHz frequency band. The product is designed to be integrated inside of other devices. The antenna can be tuned to optimize performance inside of specific concealments by adjusting matching circuit discrete component values. This antenna features 11.48 inches of RF cable and a SMP(f) RF connector.

Features

- 902 - 928 MHz
- Half Wave Dipole Design
- 2.2 dBi Omni Radiation Pattern
- Small Form Factor
- High Performance
- Vertical Polarization
- Extremely Light Weight (1.00 oz / 28.35 g)
- SMP(f) RF Connector
- Integrated Ferrite Beads to Limit Cable Radiation
- Integrated Matching Circuit PCBA Allows Antenna Feed Point Tuning for Custom Applications
- Ideal for Concealment & Surveillance Applications

Markets and Applications Include:

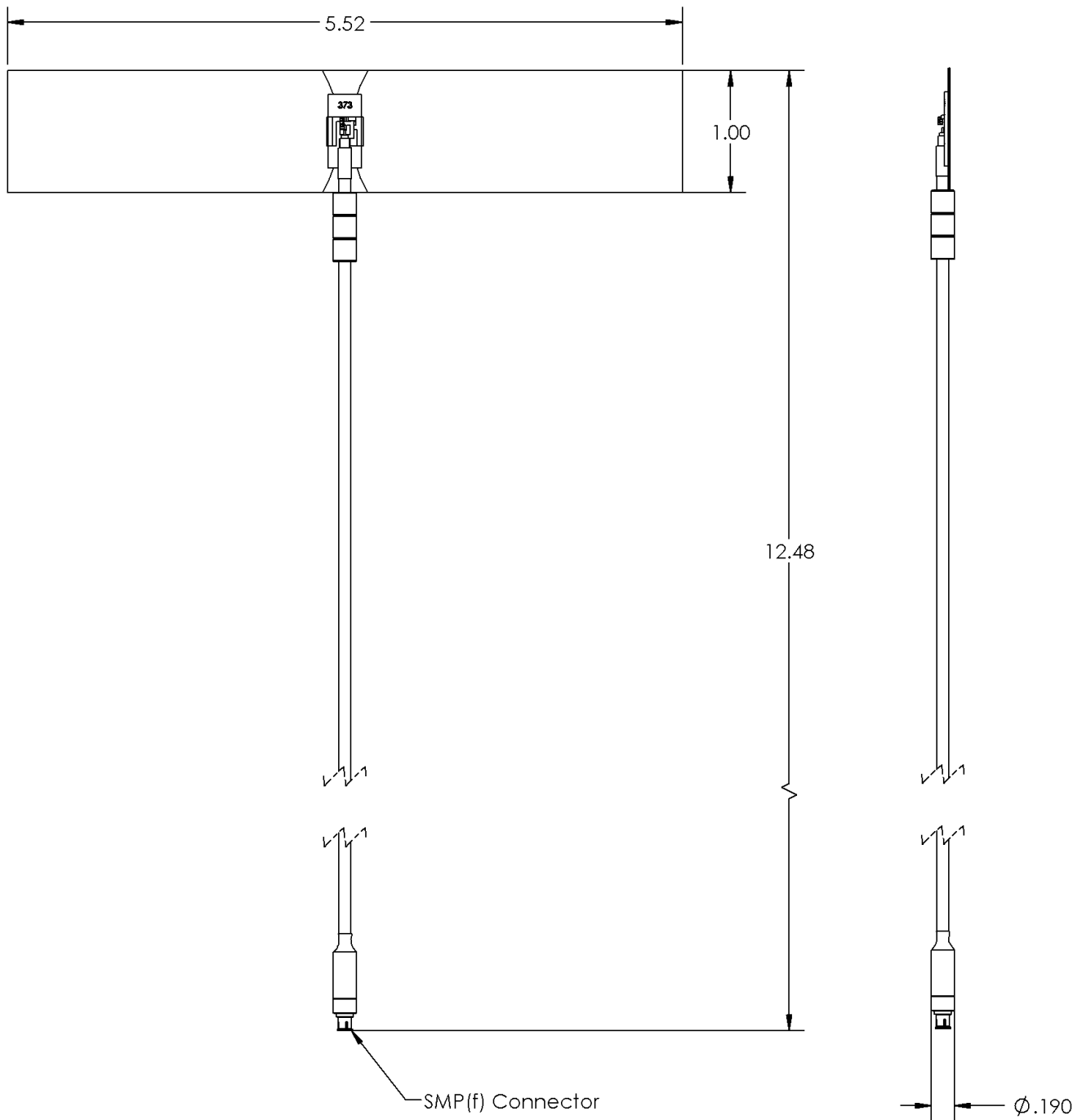
- Military / Defense
- Law Enforcement
- Surveillance
- Security

Note: 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.



Product Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	UHF		
Impedance	50		
Minimum Frequency	0.902 / 902	GHz / MHz	
Maximum Frequency	0.928 / 928	GHz / MHz	
Frequency Bandwidth	0.026 / 26	GHz / MHz	
Maximum VSWR	2.0:1	Ratio	
Maximum Gain	2.20	dBi	
Polarization	Vertical		
Maximum RF Input Power	10	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Vertical EL Beamwidth	87	Degrees	
Ground Plane Required	No		
Mount Style	Optional Double Stick Tape or Velcro Dots		
RF Connector Type	SMP(f)		
RF Cable Length	11.48 / 291.59	inches / mm	
Operating Temperature Range	-40 to +85	C	
Product Length	5.52 / 140.21	inches / mm	±0.13"
Product Width	1.0 / 25.4	inches / mm	±0.13"
Product Height	.063 / 1.600	inches / mm	±0.13"
Product Weight	1.00 / 28.35	oz / g	



Engineering Drawing

All dimensions are in inches