

## Overview

The 4G LTE Cellular Omni Concealment Antenna was designed by Southwest Antennas for use in covert surveillance operations, antenna concealment devices, or any application where discreet antenna placement is needed. Measuring only 4.70" x 1.70" and weighing less than one ounce, the 4G LTE Cellular Omni Concealment Antenna is easy to integrate into small devices or spaces without clearance for larger antennas and is specially tuned for concealment material substrates

The penta-band design gives the 4G LTE Cellular Omni Concealment Antenna coverage across all 4G LTE bands, allowing for both domestic and international use. A miniature low loss RF cable and SMA Male connector allow for flexible connection options.

Part # 1066-012 features a 3.5 foot miniature low-loss RF cable with an SMA(m) RF connector.

## Features:

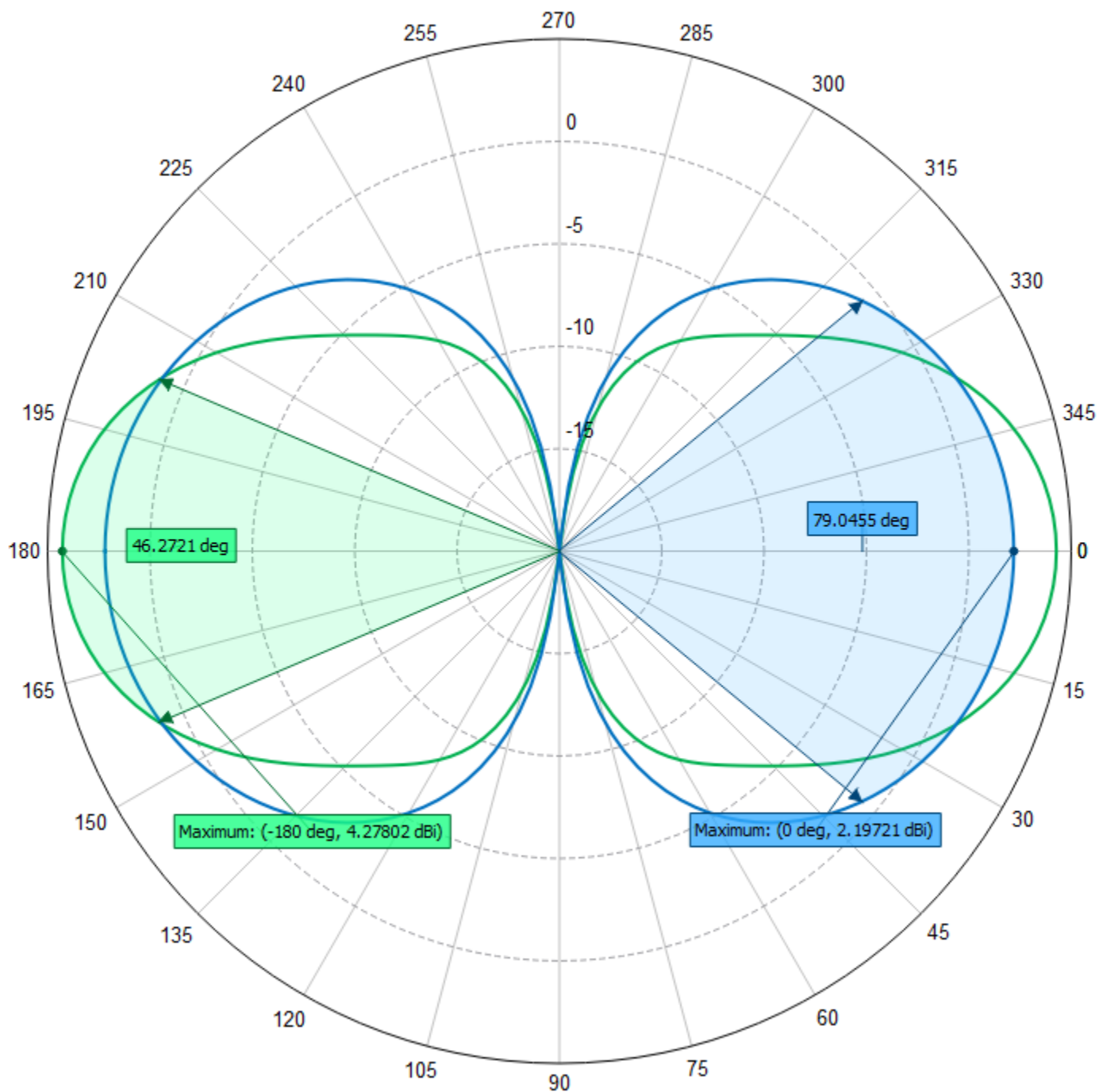
- Markets and applications include:
  - Military/Defense
  - Law Enforcement
  - Surveillance
  - Security
  - Commercial Wireless
- Extremely light weight
- Easily concealed
- Miniature low loss RF Cable
- Designed for use inside concealments
- Specially tuned for concealment material substrates
- Penta-band: covers all 4G LTE Cellular bands
- Easily attaches to surfaces with velcro dots



### Antenna Specifications

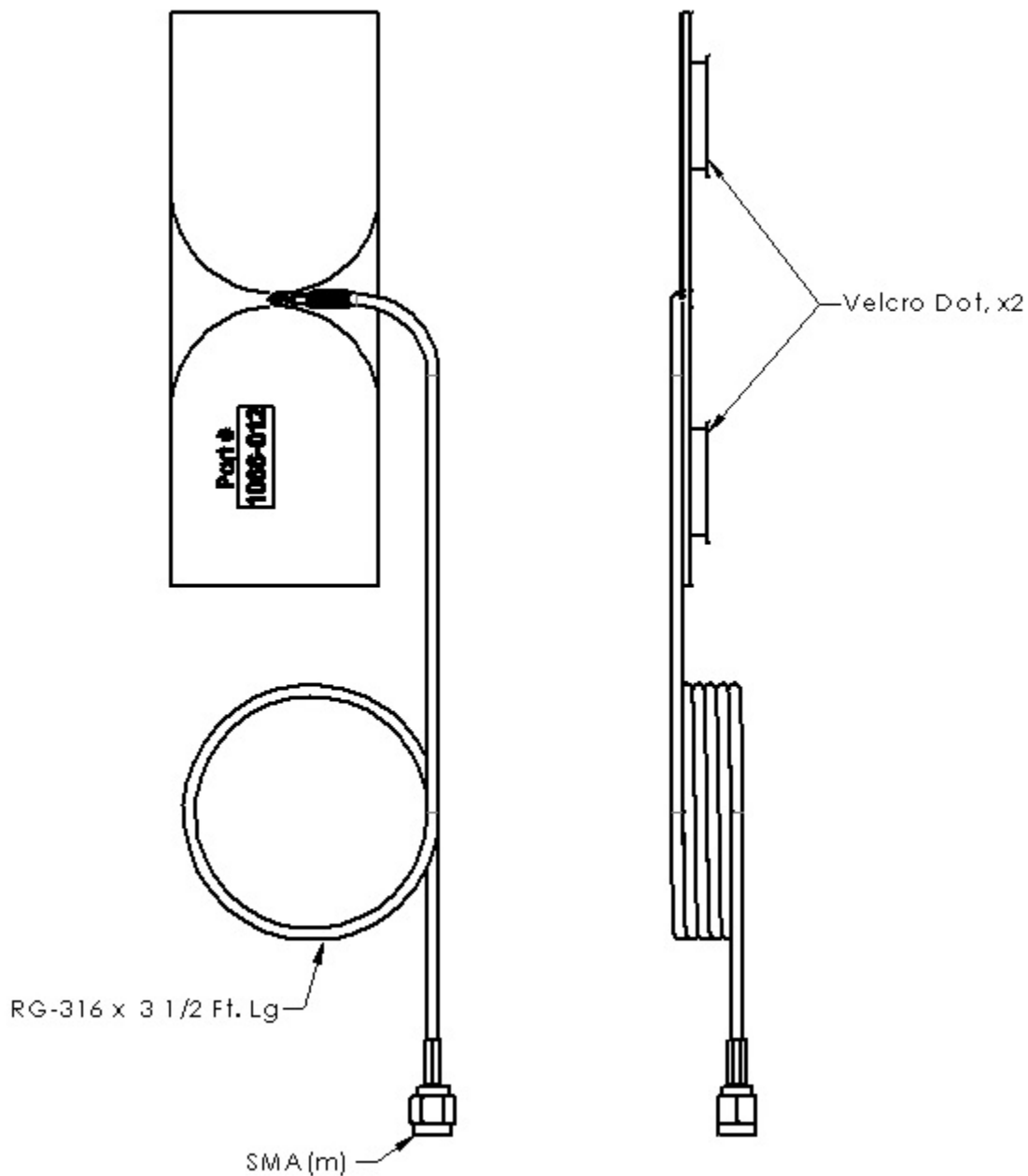
Parameter	Value	Units	Tolerance
<b>Antenna Pattern</b>	Omni		
<b>Frequency Range 1</b>	0.7 – 0.96 698 – 960	GHz MHz	
<b>Frequency Range 2</b>	1.71 – 3.0 1,710 – 3,000	GHz MHz	
<b>Maximum VSWR</b>	2.0:1	Ratio	
<b>Maximum Gain</b>	2.2	dBi	
<b>Polarization</b>	Vertical		
<b>Maximum RF Input Power</b>	1	Watt	
<b>Low Band Horizontal (AZ) Beamwidth</b>	360	Degrees	
<b>High Band Horizontal (AZ) Beamwidth</b>	360	Degrees	
<b>Low Band Vertical (EL) Beamwidth</b>	76	Degrees	
<b>High Band Vertical (EL) Beamwidth</b>	46	Degrees	
<b>Ground Plane Required</b>	No		
<b>Radome Material</b>	No radome; PCB antenna		
<b>Mount Style</b>	2x velcro dots on back side of antenna		
<b>RF Connector Type</b>	SMA(m)		
<b>RF Cable Type</b>	RG-316		
<b>RF Cable Length</b>	3.50 / 1.07	ft / m	
<b>Operating Temperature Range</b>	-40 to +85	C	

Parameter	Value	Units	Tolerance
<b>Product Length</b>	4.70 / 119.38	inches / mm	
<b>Product Width</b>	1.70 / 43.18	inches / mm	
<b>Product Height</b>	0.06 / 1.57	inches / mm	
<b>Product Weight</b>	1.0 / 28.3	oz / grams	



**Elevation Pattern**

Referenced to 5dBi, Green = 1800 MHz, Blue = 800 MHz



**Engineering Drawing**

Dimensions are in inches