

Overview

Southwest Antennas Part # 1001-228 is a wideband omni-directional antenna with an operational frequency range of 1.35 to 2.5 GHz and 2.4 dBi of peak gain.

This antenna offers excellent continuous electrical performance across its entire operational band, making this antenna ideal for multi-band applications.

1001-228 features an integrated 3.12" RF Gooseneck, which is sealed for all-weather operation. Antennas with integrated RF Goosenecks are ideal for handheld video receivers, portable radio systems, or any other mobile communication platform. The RF Gooseneck can be threaded through MOLLE gear or other tactical vest hardware for added security while moving.

A non-rotating TNC(m) RF connector allows the antenna to be easily secured or removed from equipment in the field by a single gloved hand, no tools required.

The rugged flat black fiberglass radome provides protection from damage and gives the antenna a low visibility finish. The integrated RF Gooseneck allows the antenna to bend and deflect away from impacts during indoor or outdoor operations.

Features

- Wideband Omni-Directional Antenna
- 1.35 - 2.5 GHz Continuous Coverage
- 100W Power Handling
- 2.4 dBi Omni Radiation Pattern
- Integrated Sealed RF Coaxial Gooseneck
- Black Chrome Non-Rotating TNC(m) Connector

Applications:

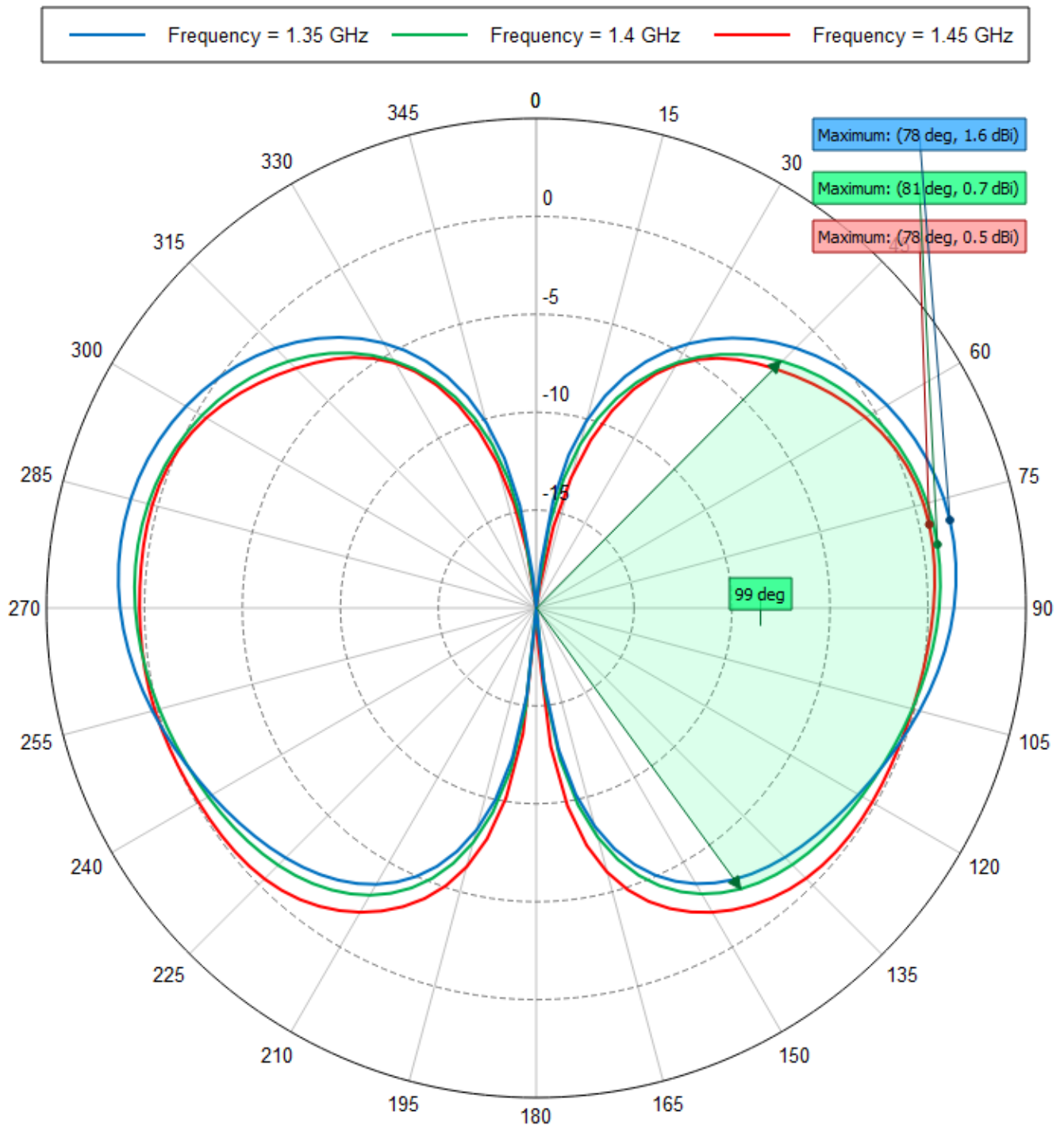
- Tactical radio systems
- Hand-held or bodyworn radios
- Support for radios with multi-band or wideband operational capabilities
- C4ISR / EW / SIGINT applications
- DOD / military band applications
- Law enforcement band applications
- Homeland Security band applications
- Unmanned systems and ground control stations
- High band cellular & 2.4 GHz ISM band coverage



Product Specifications

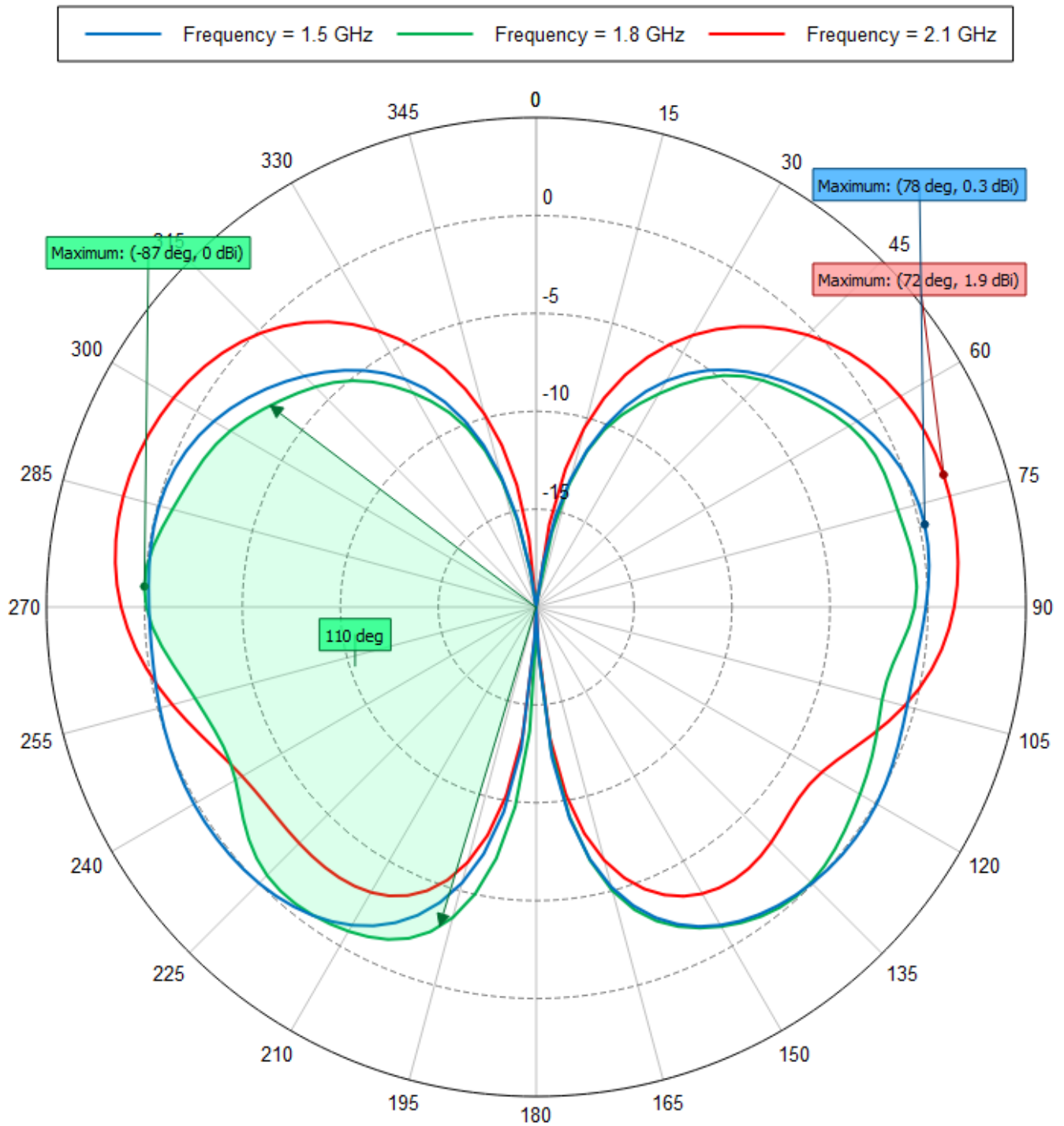
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	L & S		
Impedance	50		
Minimum Frequency	1.35 / 1,350	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Frequency Bandwidth	1.15 / 1,150	GHz / MHz	
Maximum VSWR	2.0:1	Ratio	
Maximum Gain	2.40	dBi	
Polarization	Vertical		
Color	Black		
Maximum RF Input Power	100	Watts	
Horizontal AZ Beamwidth	360	Degrees	
Low Band Vertical EL Beamwidth	99.3	Degrees	L-Band (1.35 - 1.45 GHz)
Mid Band Vertical EL Beamwidth	110	Degrees	L/S-Band (1.5 - 2.1 GHz)
High Band Vertical EL Beamwidth	58	Degrees	S-Band (2.2 - 2.5 GHz)
Radome Material	G10 Fiberglass		
Spring Or Gooseneck	Gooseneck		
Spring	No		
Gooseneck	Yes		
Gooseneck Length	3.12 / 79.25	inches / mm	±.09"
Gooseneck Diameter	.385 / 9.779	inches / mm	+.010" / -.005"
Ground Plane Required	No		

Parameter	Value	Units	Tolerance
RF Connector Type	TNC(m) Non-Rotating		
RF Connector Finish	Black Chrome		
Operating Temperature Range	-40 to +85	C	
Product Length	8.95 / 227.33	inches / mm	±.13"
Product Diameter	.812 / 20.625	inches / mm	+.020" / -.000"
Product Weight	3.52 / 99.79	oz / g	



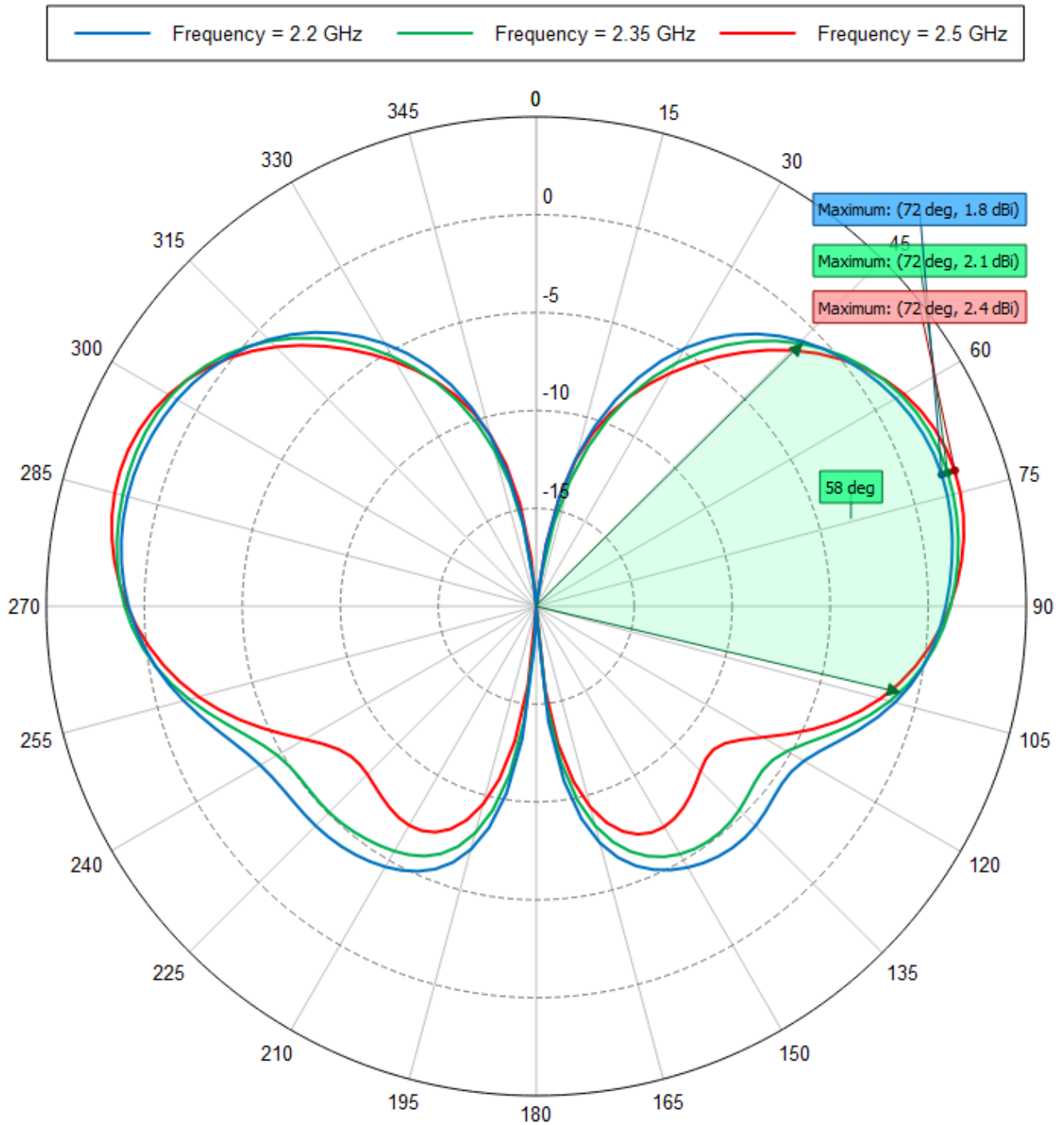
Elevation Pattern, Low Band

Referenced to +5 dBi



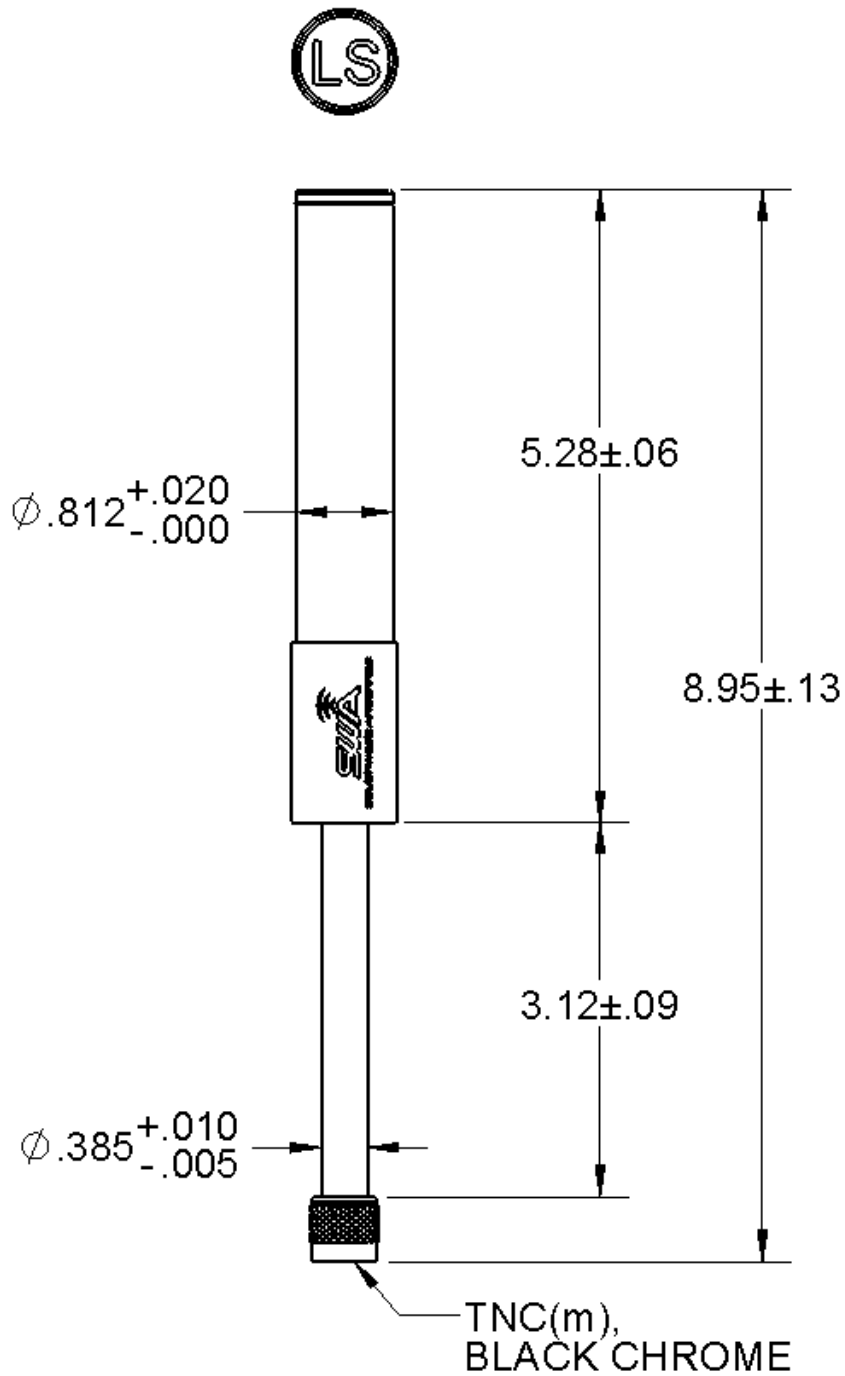
Elevation Pattern, Mid Band

Referenced to +5 dBi



Elevation Pattern, High Band

Referenced to +5 dBi



Engineering Drawing