

Overview

Southwest Antennas Part # 1087-059 is an omni-directional antenna designed to operate from 4.4 - 5.0 GHz. The 4 section collinear architecture delivers 6.5 dBi of peak gain.

This antenna features a rugged flat black radome with an integrated flange mount base featuring a lock-wired RF connector interface. The lock wire enables this antenna to be used safely when mounted to vibrating platforms, such as helicopters or ground vehicles.

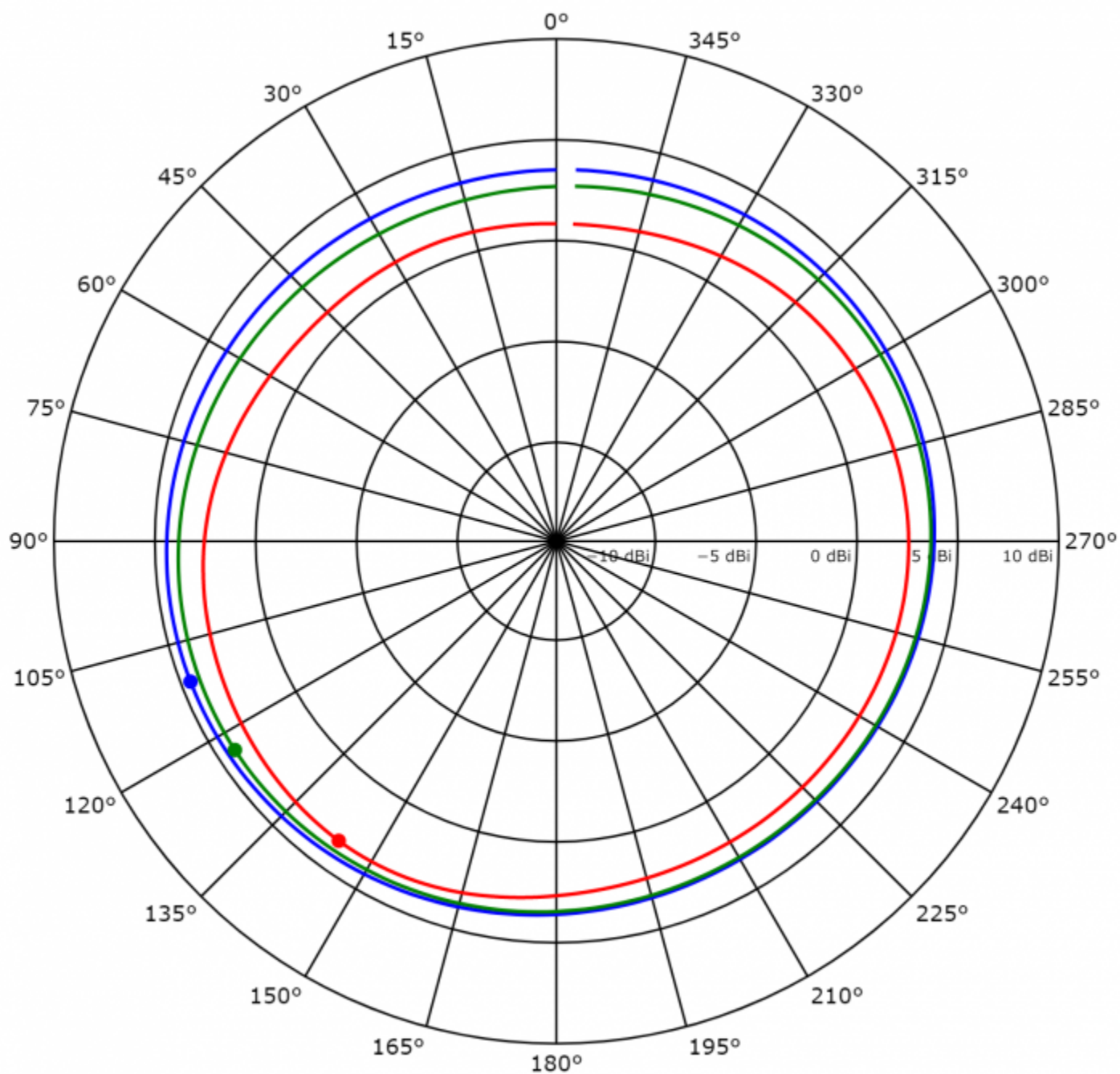
Features:

- Broad Band Coverage
- 4 Section Collinear
- 4.4 - 5.0 GHz
- 50W Power Handling
- 6.5 dBi Omni Radiation Pattern
- Rugged Construction Low Glare Black Radome
- End Cap Lettering "C"
- Flange Mount Base
- TNC(m) RF Connector Secured with Lock Wire



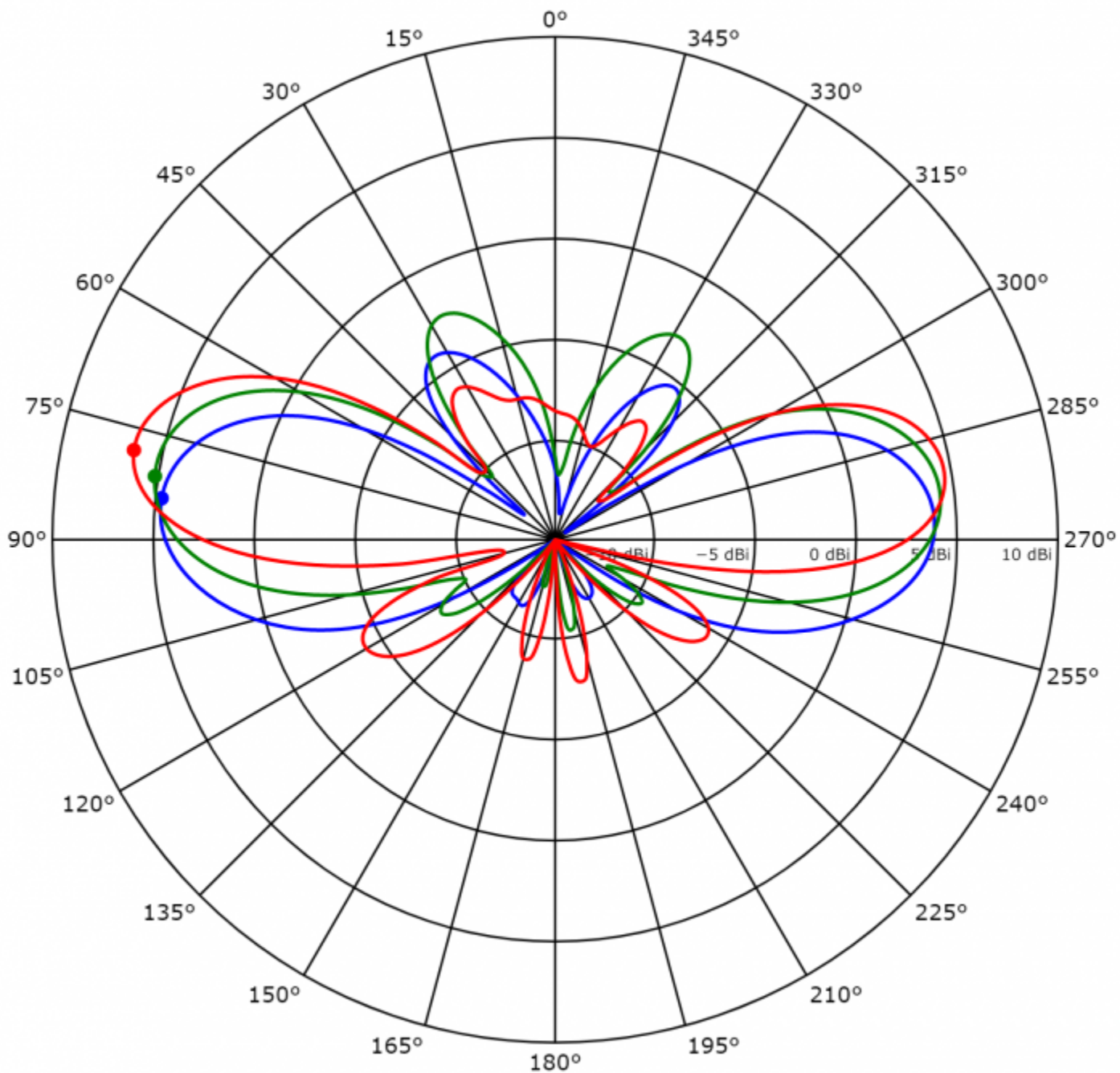
Antenna Specifications

Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	C		
Impedance	50	Ohms	
Minimum Frequency	4.4 / 4,400	GHz / MHz	
Maximum Frequency	5.0 / 5,000	GHz / MHz	
Frequency Bandwidth	0.6 / 600	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	6.5	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	21 - 41	Degrees	
Ground Plane Required	No		
Color	Black		
Mount Style	Flange Mount		
Mount Diameter	3.50 / 88.90	inches / mm	
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	TNC(f)		
Product Height	7.69 / 195.33	inches / mm	±0.13"
Product Diameter	0.81 / 20.62	inches / mm	+0.02" / -.000"
Product Weight	4.7 / 133.2	oz / grams	



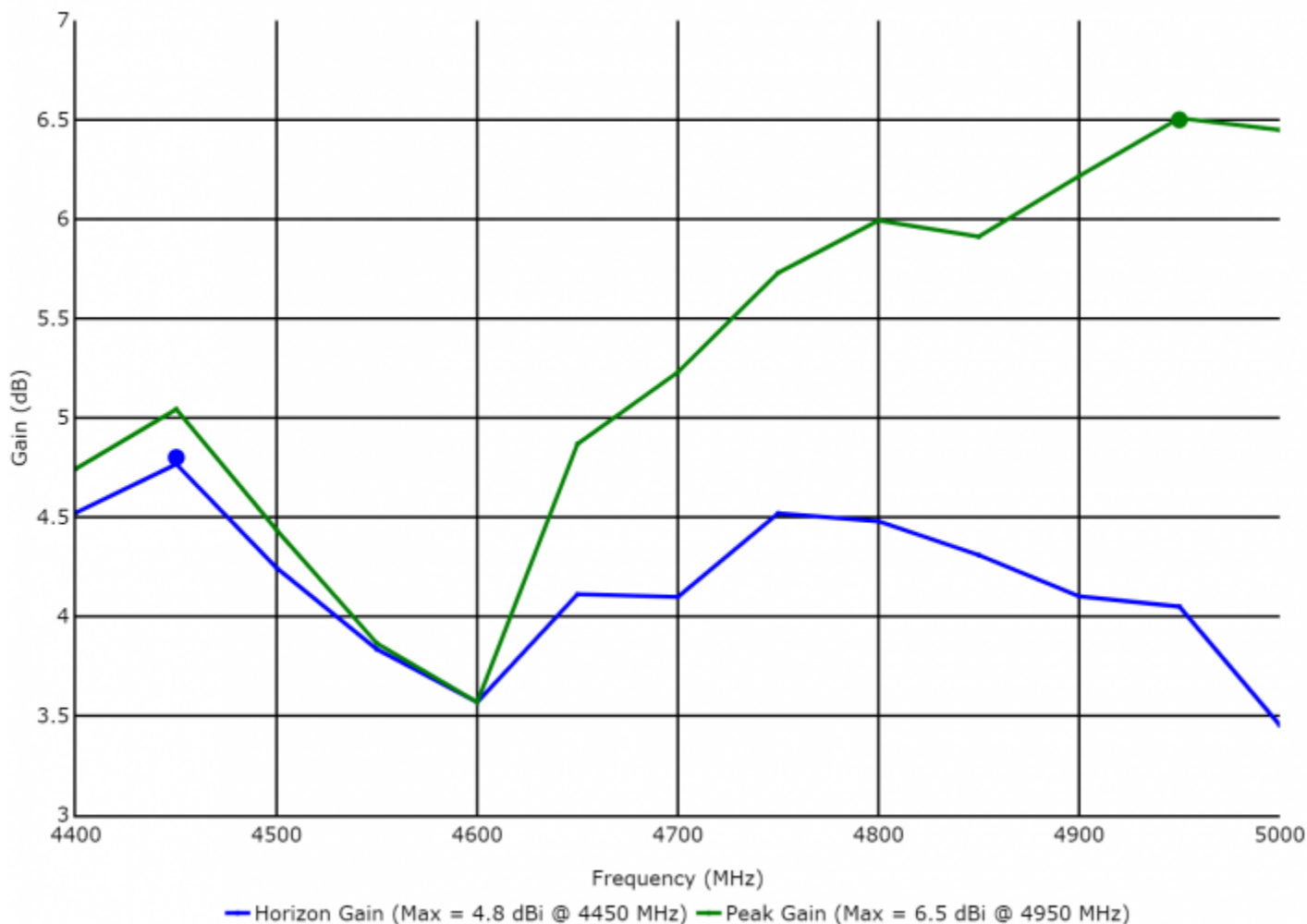
— 4400 MHz (4.5 dBi max. @ 110 deg) — 4700 MHz (4.1 dBi max. @ 123 deg) — 5000 MHz (3.5 dBi max. @ 144 deg)

Azimuth Pattern

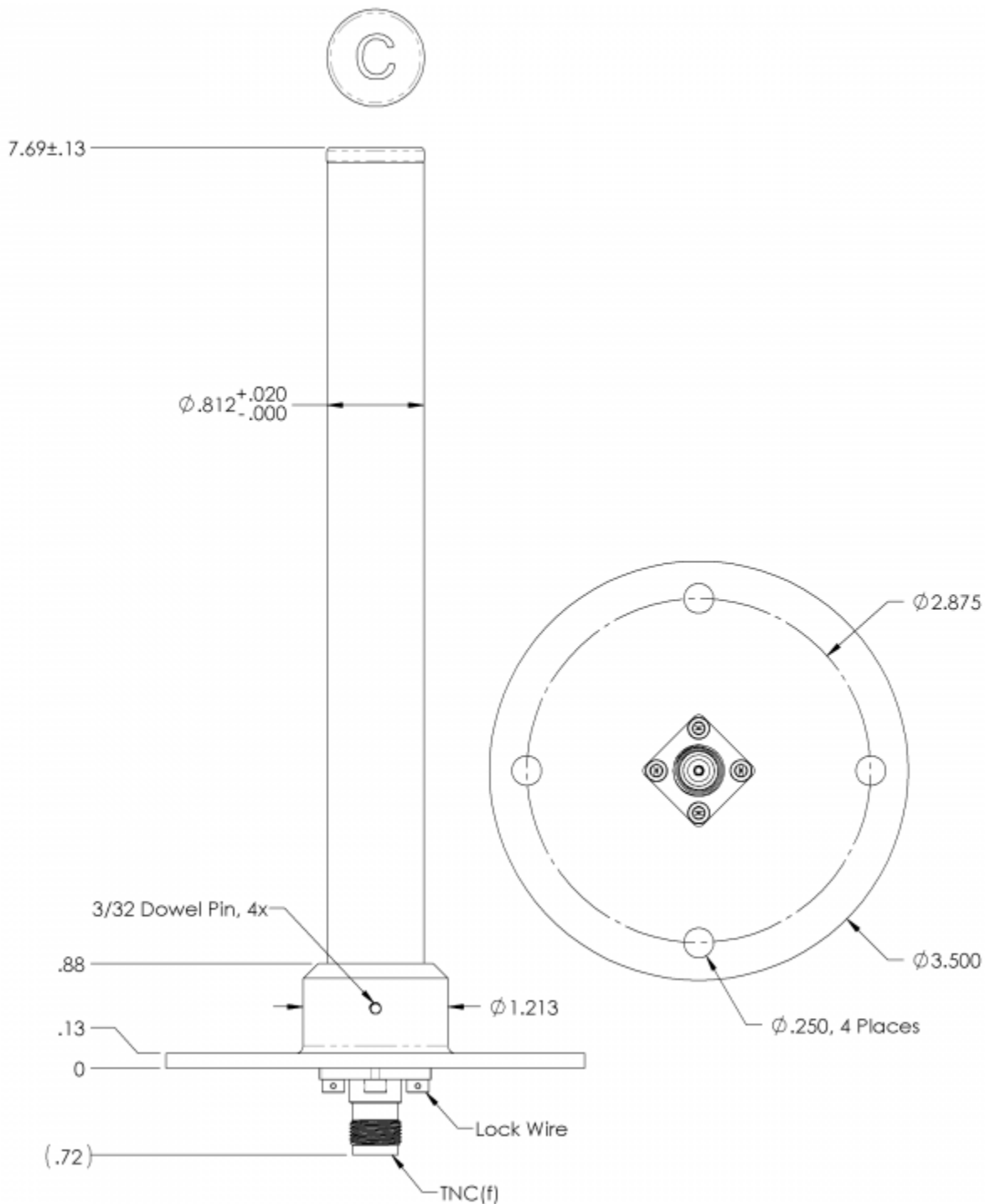


— 4400 MHz (4.7 dBi max. @ 84 deg) — 4700 MHz (5.2 dBi max. @ 80 deg) — 5000 MHz (6.4 dBi max. @ 78 deg)

Elevation Pattern



Gain vs. Frequency Plot



Engineering Drawing

All dimensions are in inches