

## Overview

Part # 1085-224 is an omni-directional full wave dipole antenna that features 1.9 - 2.5 GHz L and S Band frequency coverage with 3.7 dBi of peak gain. This product features a rugged black G10 fiberglass radome and a rotating black chrome Type-N(m) RF connector. The overall product height measures 9.97 inches.

The spring is fully sealed to prevent rain, dust, mud, and other debris from impacting antenna performance or fouling the spring. The integrated spring design minimizes stress placed on the antenna and radio connection, and can help prevent damage to both in the event of an impact to the antenna.

## Features:

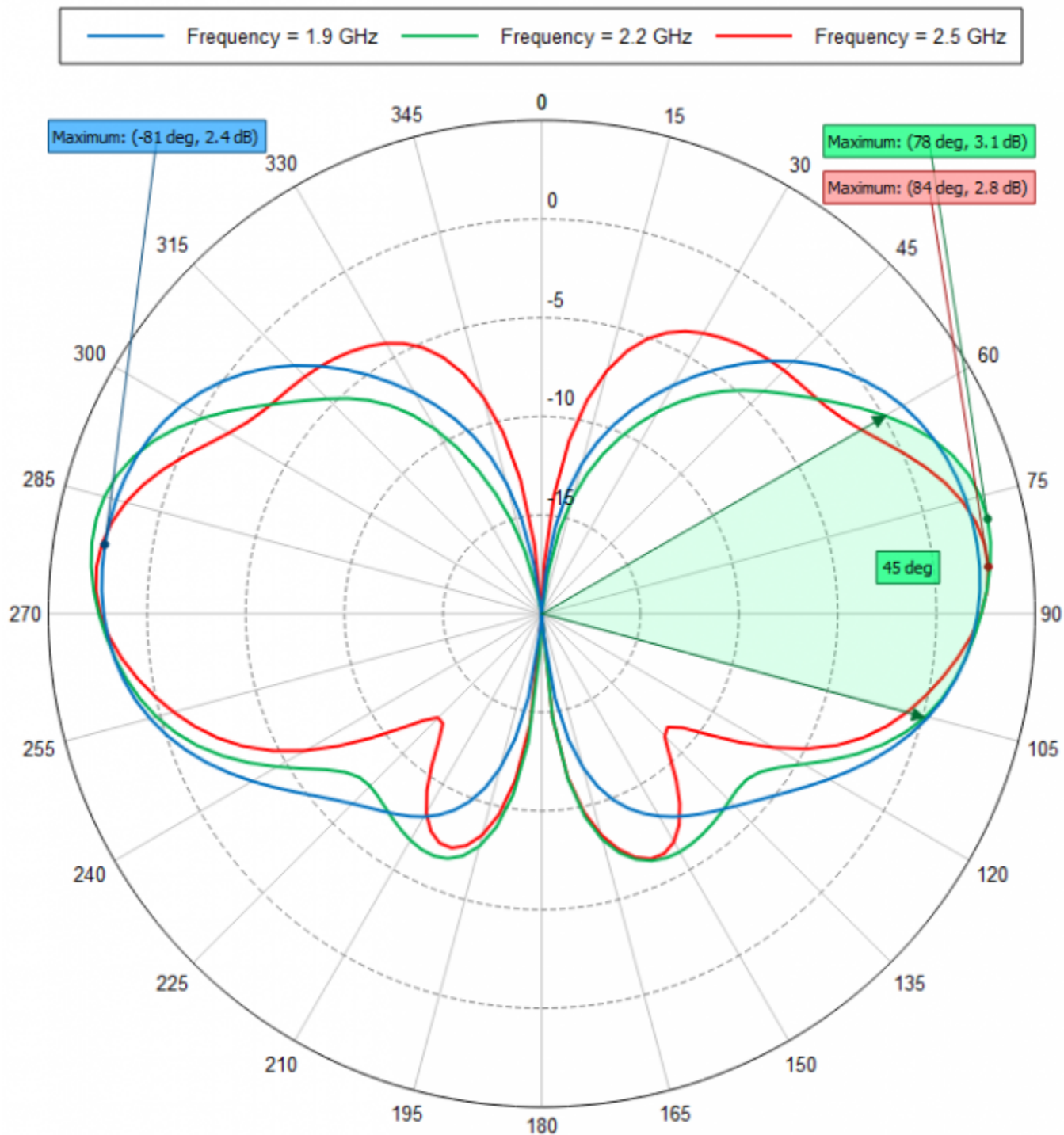
- Broad Band Coverage
- 1.9 - 2.5 GHz
- Full Wave Dipole Design
- 3.7 dBi Omni Radiation Pattern
- Rugged Construction
- Low Glare Black Radome
- End Cap Lettering "S"
- Weatherproof Sealed Spring Base
- Black Chrome Rotating Type-N(m) RF Connector



### Antenna Specifications

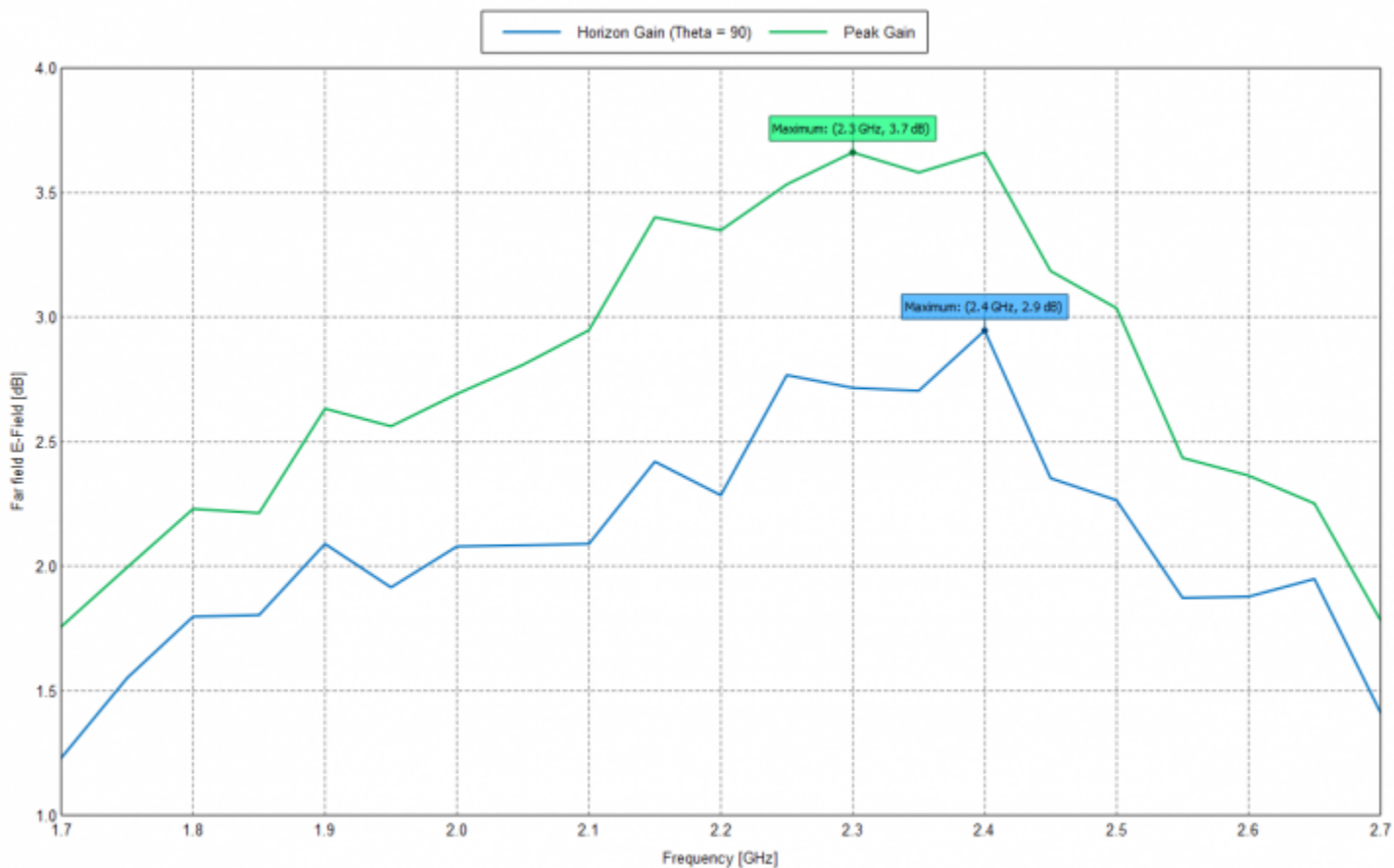
Parameter	Value	Units	Tolerance
Antenna Pattern	Omni Antenna		
Frequency Band	L & S		
Impedance	50	Ohms	
Minimum Frequency	1.9 / 1,900	GHz / MHz	
Maximum Frequency	2.5 / 2,500	GHz / MHz	
Frequency Bandwidth	0.6 / 600	GHz / MHz	
Maximum VSWR	2:1	Ratio	
Maximum Gain	3.7	dBi	
Polarization	Vertical		
Maximum RF Input Power	50	Watts	
Horizontal (AZ) Beamwidth	360	Degrees	
Vertical (EL) Beamwidth	36 - 59	Degrees	
Ground Plane Required	No		
Radome Material	G10 Fiberglass		
Color	Flat Black		
Spring or Gooseneck	Spring		
Spring Length	0.75 / 19.05	inches / mm	
Spring Diameter	0.75 / 19.05	inches / mm	
Spring Bend	±45	Degrees	Maximum (exceeding ±45 degrees may damage spring weather seal)
Maximum Wind Velocity	100 / 161	mph / kph	
RF Connector Type	Type-N(m)		

Parameter	Value	Units	Tolerance
<b>RF Connector Features</b>	Black Chrome		
<b>Operating Temperature Range</b>	-40 to +85	C	
<b>Product Height</b>	9.97 / 253.24	inches / mm	±0.13"
<b>Product Diameter</b>	0.81 / 20.62	inches / mm	+0.02" / -.000"
<b>Product Weight</b>	4.4 / 124.2	oz / grams	

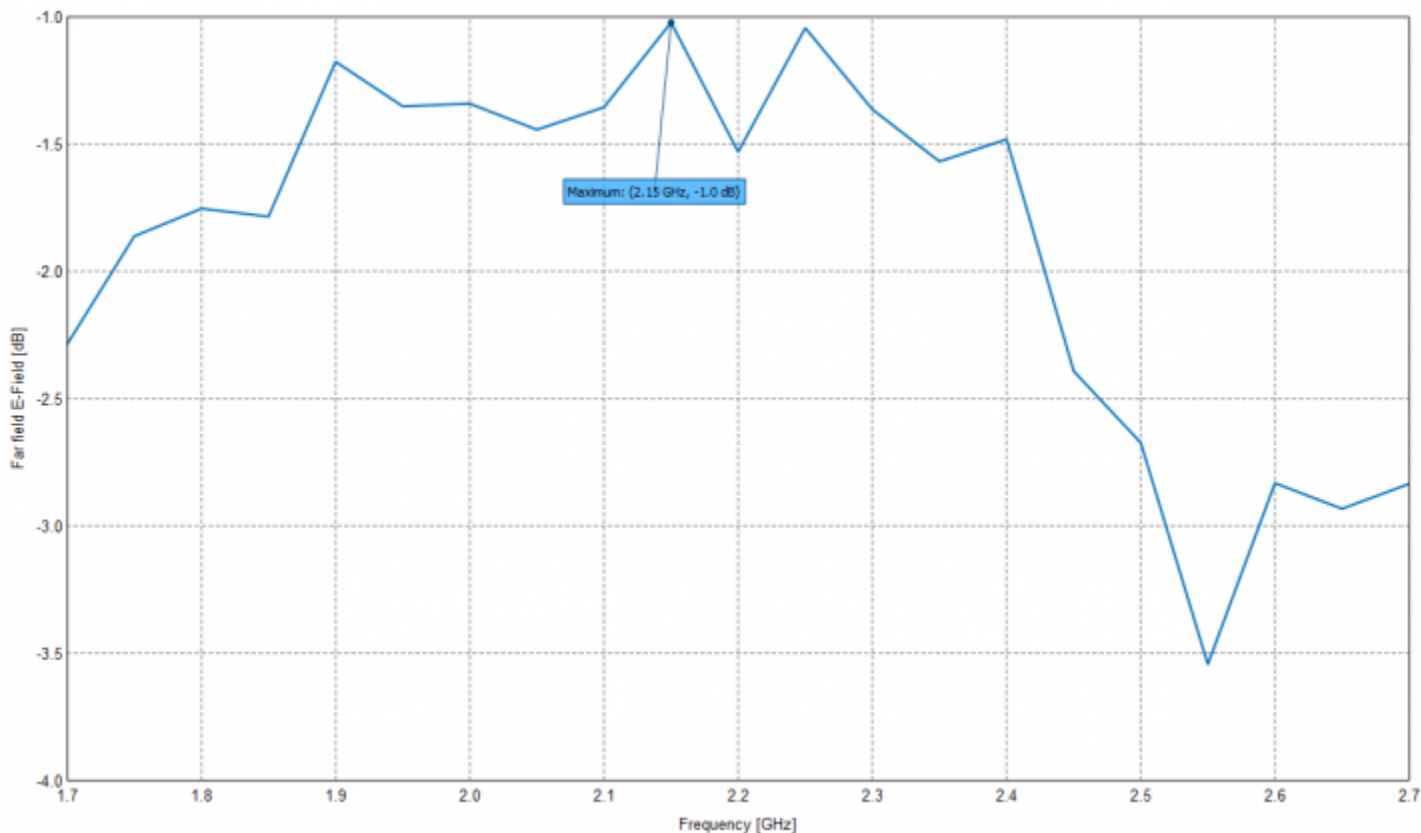


**Elevation Pattern**

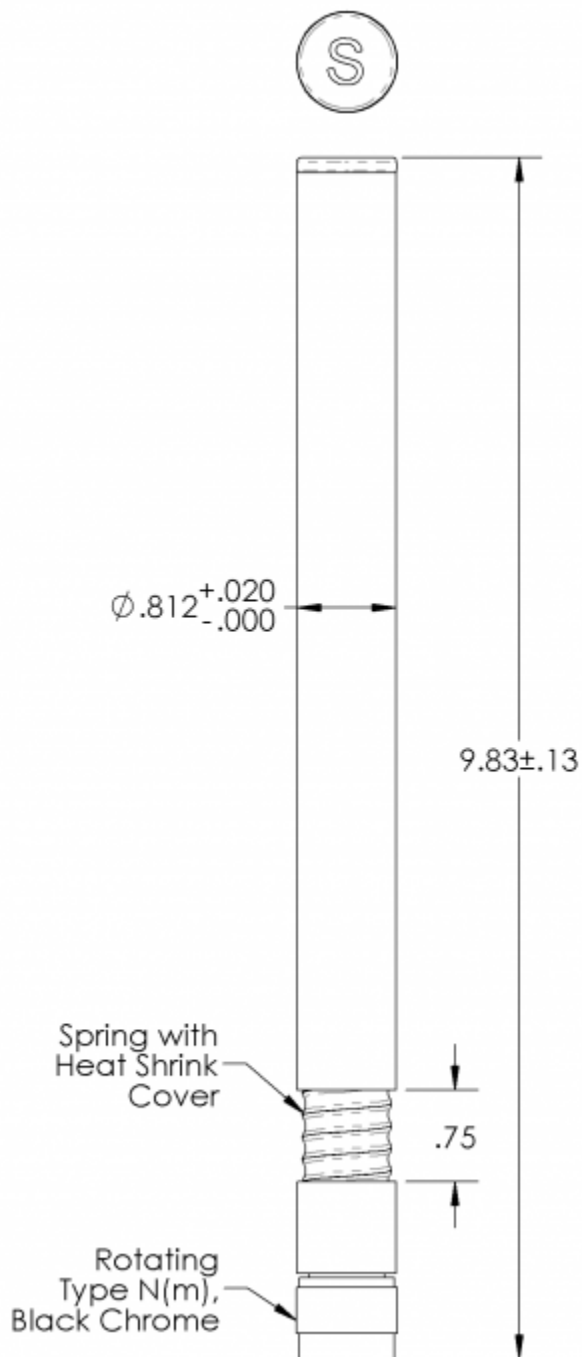
Referenced to +5 dBi



Gain vs. Frequency Plot



**Measured Pattern Efficiency**



**Engineering Drawing**

All dimensions are in inches