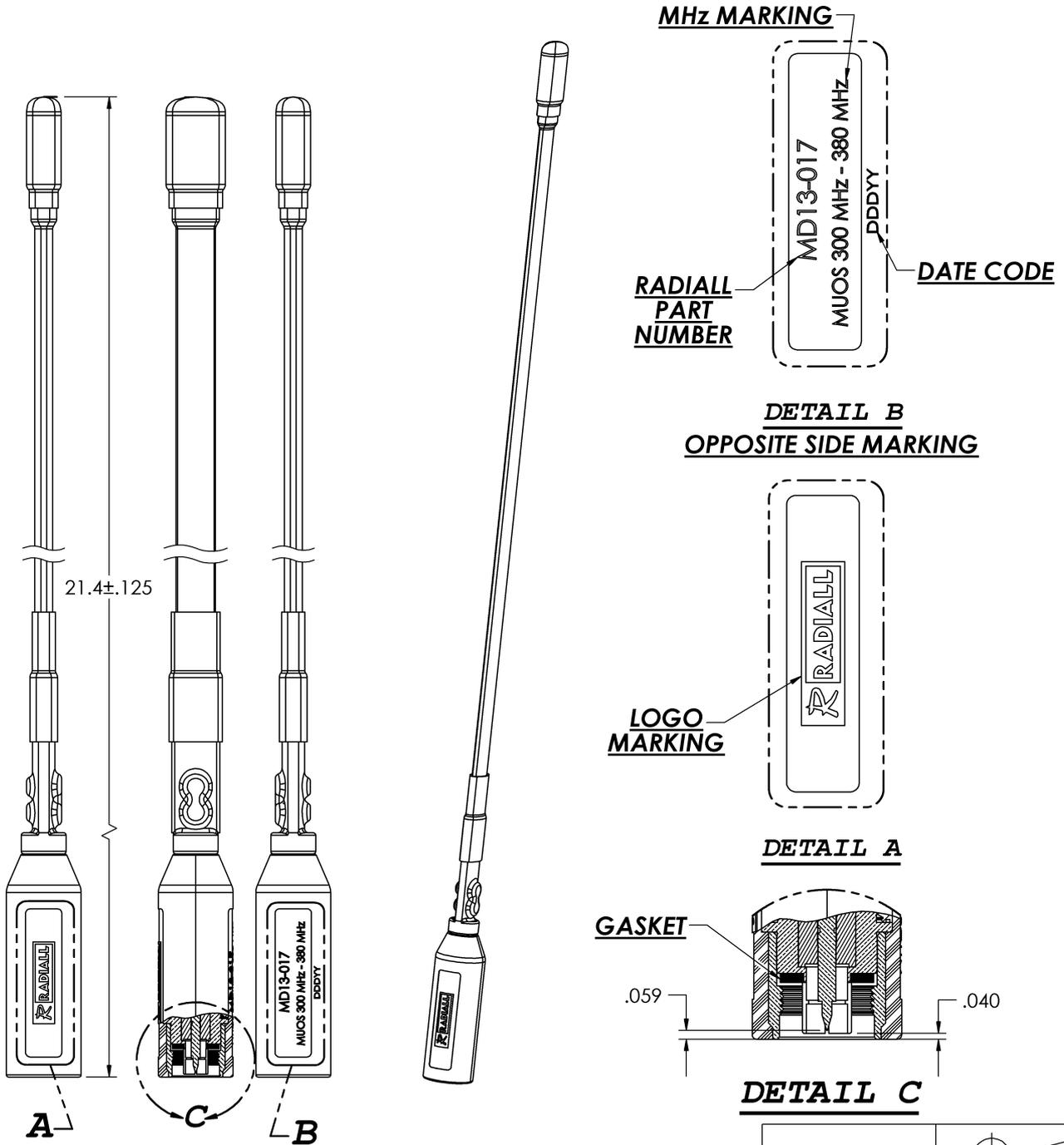


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UNITS: INCH	
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PRELIMINARY

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ELECTRICAL CHARACTERISTICS

Frequency:.....	300-320, 360-380 MHz
Nominal Impedance:.....	50 Ω
VSWR:	3.0:1 Max
Peak Gain (elevation 10°):.....	0±1 dBi 300-320, 360-380 MHz
Radiation Pattern	
Horizontal Plane (Θ=90°):	Omni-directional
Vertical Plane (Φ=0°/90°):	Dipolar
Polarization :	Linear Vertical
Connector type:	N Male
Power Handling (min):	20 Continuous W @ 23°C

MECHANICAL CHARACTERISTICS

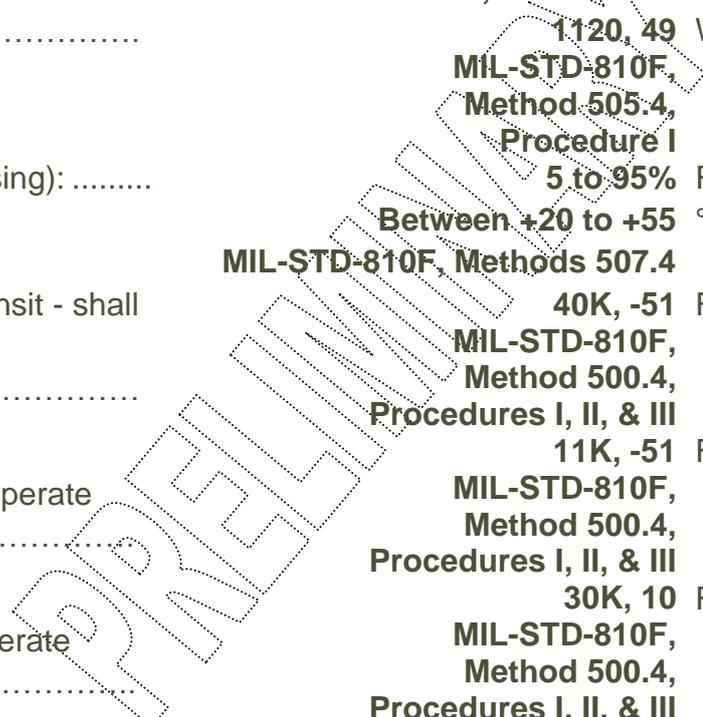
Antenna Color :	Black Matte
Antenna Flexibility :	+/- 180° - 500 Cycles
Weight :	5.6 Oz.
Overall length :	21.4 Inches

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ENVIRONMENTAL CHARACTERISTICS

Operating Temperature:	-40 / +55 °C
	MIL -STD-810F, Methods 501.4 & 502.4, Procedure II
Storage Temperature :	-51 / +71 °C
	MIL-STD-810F, Methods 501.4 & 502.4, Procedure I
Solar Loading:.....	1120, 49 W/m ² , °C
	MIL-STD-810F, Method 505.4, Procedure I
Humidity (Non-condensing):	5 to 95% Relative Humidity
	Between +20 to +55 °C
	MIL-STD-810F, Methods 507.4
Altitude (Storage & Transit - shall operate after exposure):.....	40K, -51 Feet, °C
	MIL-STD-810F, Method 500.4, Procedures I, II, & III
Altitude (Operational, Decompression, shall operate after exposure):	11K, -51 Feet/min, °C
	MIL-STD-810F, Method 500.4, Procedures I, II, & III
Altitude (Operational, unpressurized, shall operate during exposure):	30K, 10 Feet, minutes
	MIL-STD-810F, Method 500.4, Procedures I, II, & III
Rainfall:.....	Rate 1.8 Inches/Hour
	Wind speed 40 MPH
	Duration 40 Minutes
	MIL-STD-810F Method 506.4 Procedures II & III
Sand & Dust :	
Fine Dust Particles :....	Wind Speed 1,750 Feet/Min
Sand Particles:.....	Wind Speed 5,750 Feet/Min
	MIL-STD-810F Method 510.4 Procedures I & II
Salt Fog :	4 Periods Totaling 96 Hours
	Alternating Wet & Dry
	MIL-STD-810F Method 509.4



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Immersion :.....

Depth 2 Meters
Duration 30 Minutes
MIL-STD-810F
Method 512.4
Procedure I

Shock (Transit Drop) :.....

Elevation 48 Inches
MIL-STD-810F

Shock (Parachute & Sling Load) :.

Method 516.5
Procedure IV
MIL-STD-810F
Method 516.5
Procedure V

Fungus (Shall withstand exposure to and shall not support growth, in tropical climate) :.....

IAW MIL-STD-810F Analysis
Method 508.5

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ELECTRICAL PERFORMANCE



Figure 1: VSWR measured when mounted on man-pack chassis 1m above ground

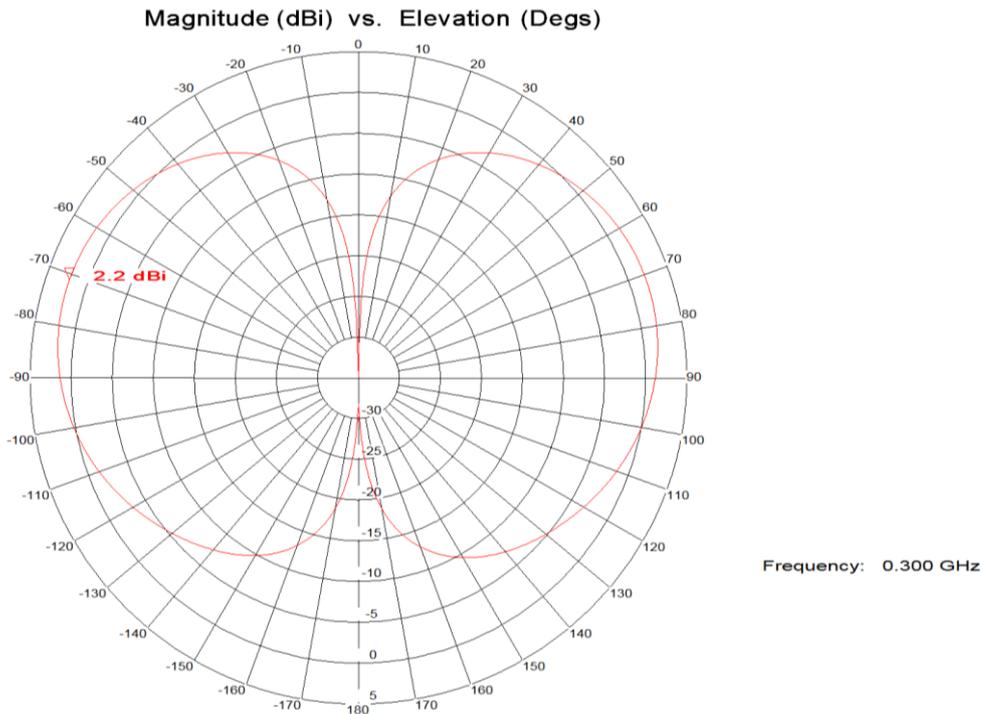


Figure 2: Elevation Radiation Pattern – F = 300 MHz

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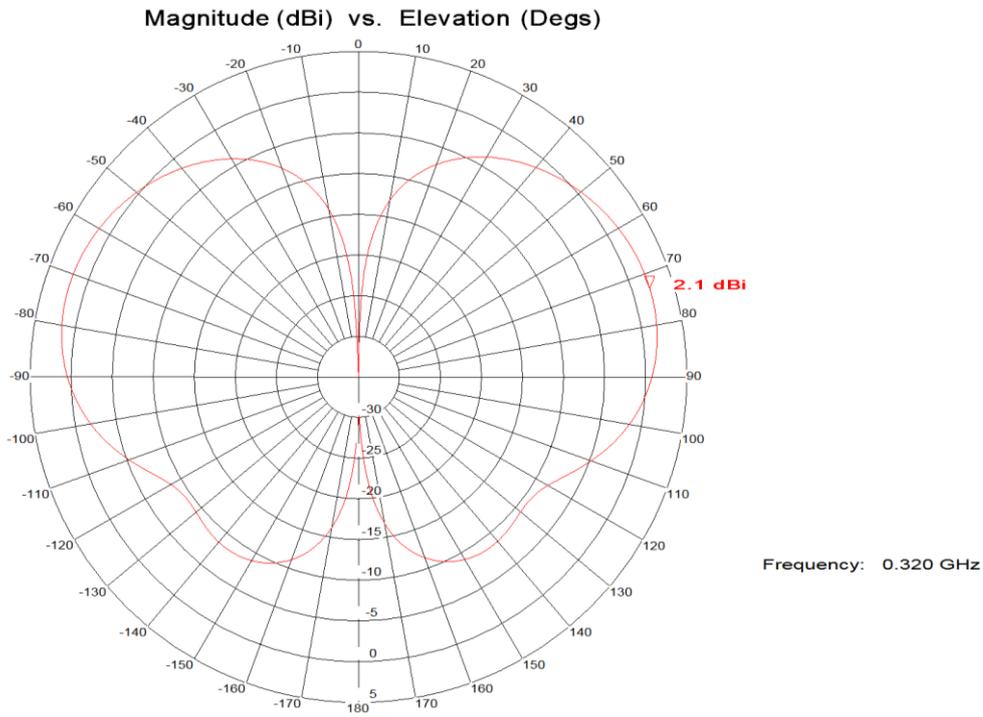


Figure 3: Elevation Radiation Pattern – F = 320 MHz

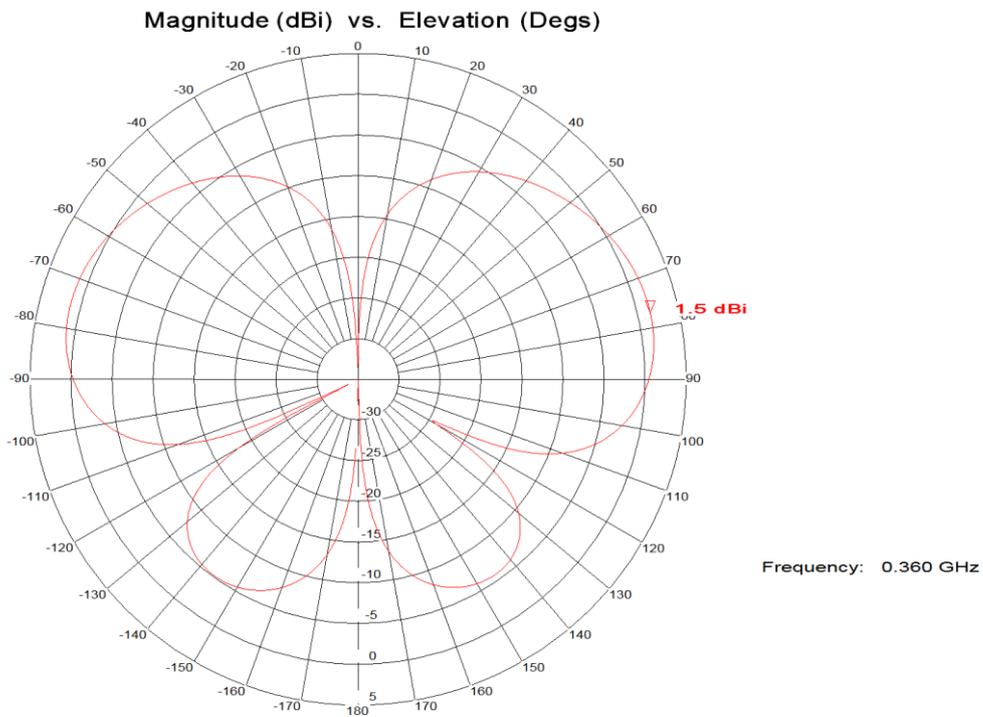


Figure 4: Elevation Radiation Pattern – F = 360 MHz

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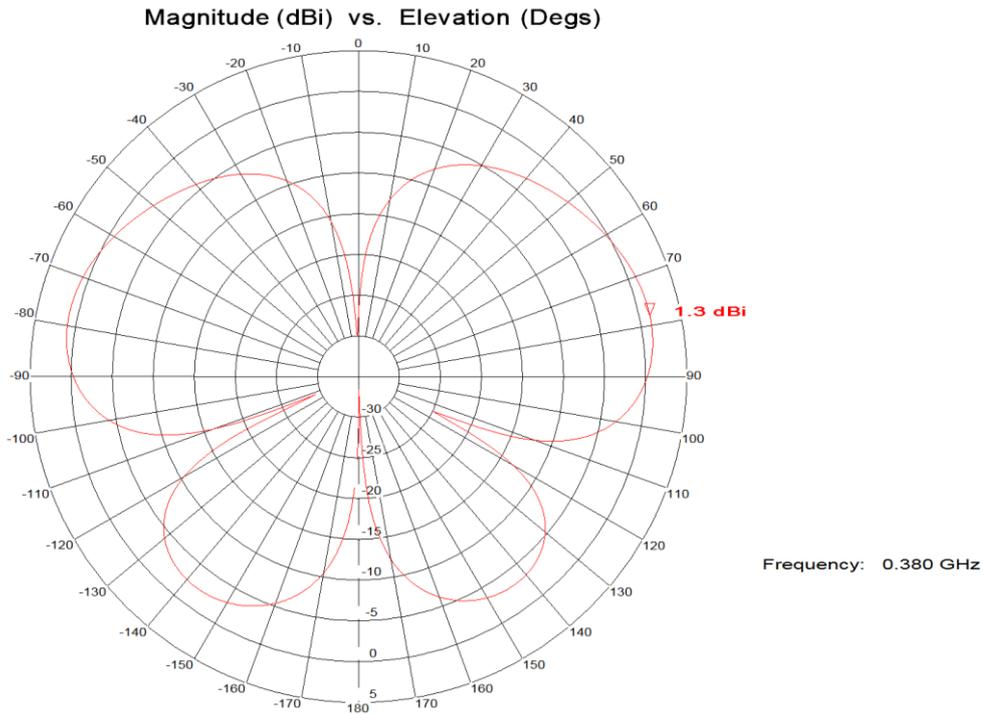


Figure 5: Elevation Radiation Pattern – F = 380 MHz

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