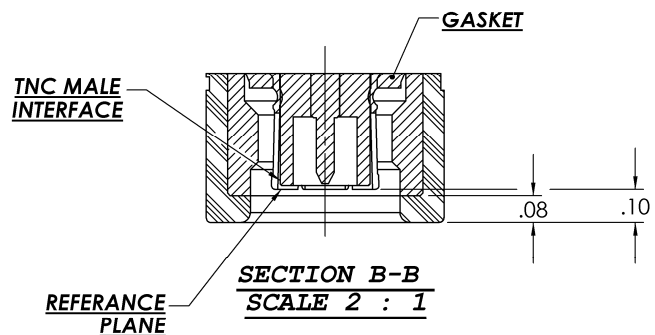
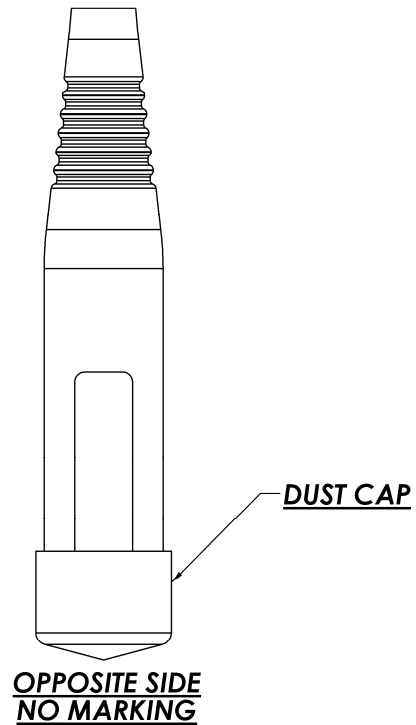
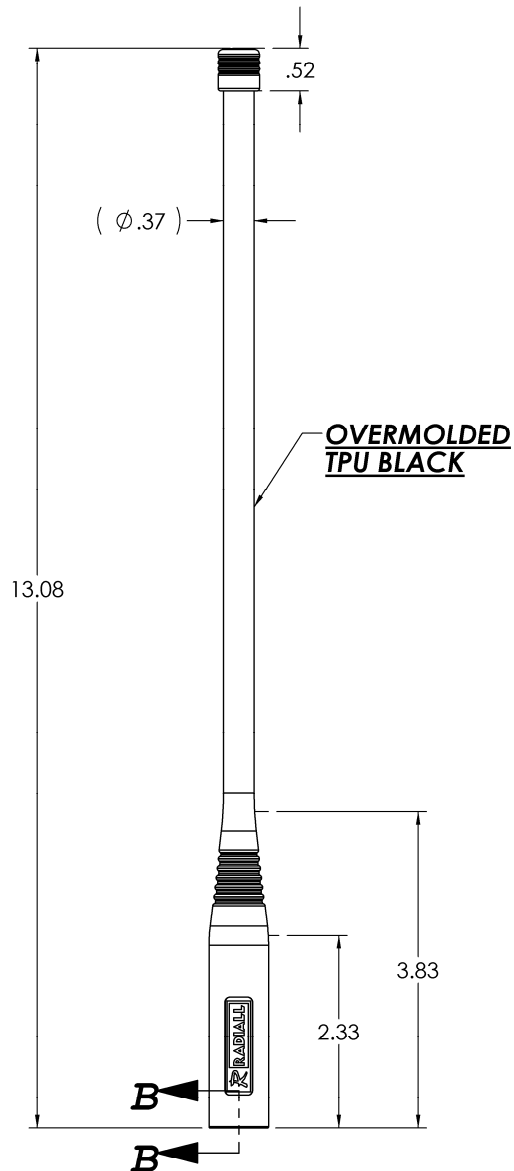


VHF ANTENNA, FLEXIBLE WHIP

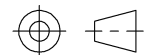
136 MHz – 174 MHz

MD10-003

Series : Antenna



UNITS: INCH



All dimensions are inches

Issue : 1041

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIAL 

VHF ANTENNA, FLEXIBLE WHIP**136 MHz – 174 MHz****MD10-003****Series : Antenna****ELECTRICAL CHARACTERISTICS**

Frequency :	136 - 174 MHz
Nominal Impedance:	50 Ω
VSWR*:	3.0:1 Max
Peak Gain::	>-2 dBi
Radiation Pattern	
Horizontal Plane ($\Theta=90^\circ$):	Omni-directional
Vertical Plane ($\Phi=0^\circ/90^\circ$):	Dipolar
Polarization :	Linear Vertical
Power withstanding :	8 W (CW)
Connector type :	TNC Male

MECHANICAL CHARACTERISTICS

Antenna Color :	Black matte
Antenna Material :	Texin 245
Antenna Texture :	Flat
Flexibility:	180° - 500 cycles
Matching Unit Length:	2.70 Inches
Weight (antenna):	3 Oz
Overall length :	13.23 Inches

*: Measured when antenna is mounted on a handheld radio chassis held by hand

Issue : 1041

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VHF ANTENNA, FLEXIBLE WHIP**136 MHz – 174 MHz****MD10-003****Series : Antenna****ENVIRONMENTAL CHARACTERISTICS**

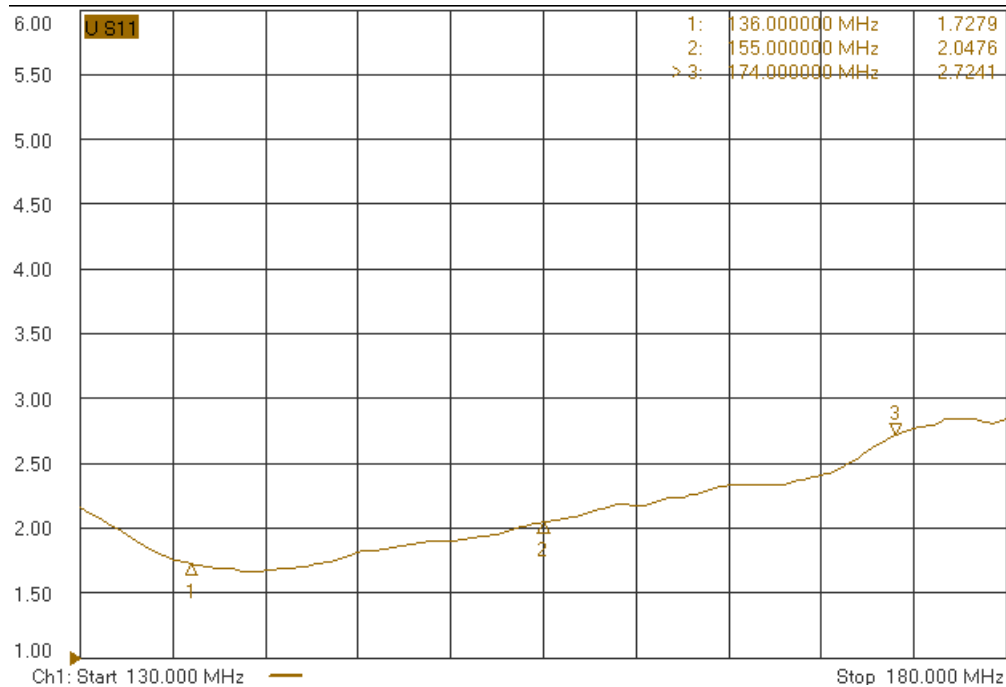
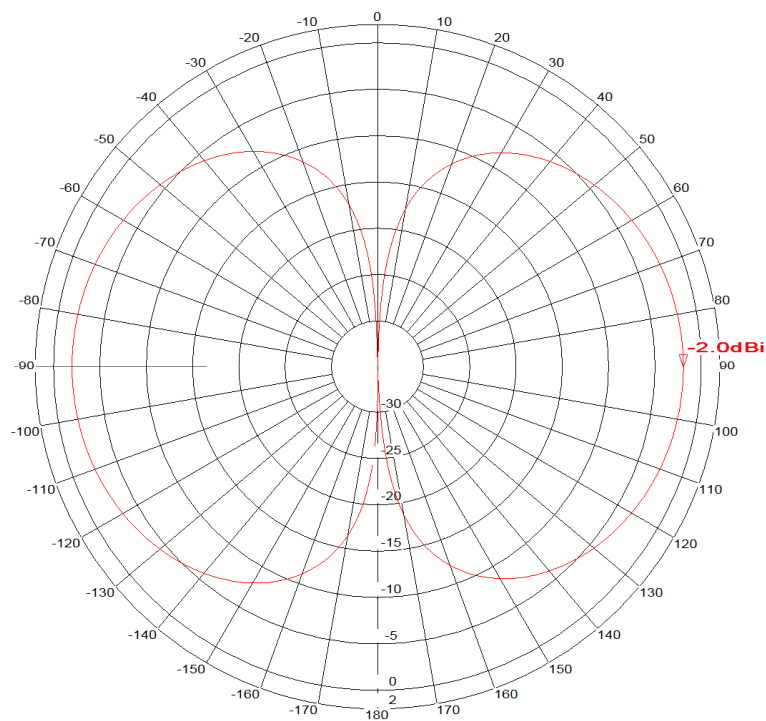
Product Compliant with the RoHS (Restriction of Hazardous Substances) and WEEE (Waste Electrical and Electronics Equipment) requirements

Operating Temperature :	-33 / +60 °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
Sand & Dust:	Ambient +70 °C Concentration 2.2 & 10.6 g/m³ Velocity 3450-5700 & 300-1750 ft/min MIL-STD-810F, Methods 510.4, Procedure I & Procedure II
Salt Fog:	5% Salt Concentration 96 Hours MIL-STD-810F, Methods 509.4
Humidity:	95% Relative Humidity +30/+60 °C MIL-STD-810F, Methods 507.4
Fungus:	US Standard Set Of Test Fungi Duration 28 Days MIL-STD-810F, Method 508.5
Shock (Transit Drop):	Drop Height 19.7 Inches MIL-STD-810F, Method 516.5, Procedure IV, 26 Drops
Vibration : (Loose Cargo Transportation)	MIL STD 810F Method 514.5 Procedure II Category 5 MIL-STD-810F Method 512.4 Complete Immersion Conditioning Temperature: 27 ° above water temperature
Immersion :	Stand alone & attached to the radio at ambient temperature 2 Meters, Salt Water 2 Hours Celsius
Flexibility :	180 degree bend, 500x, .5 Hz Max

OTHER CHARACTERISTICS**Issue : 1041**

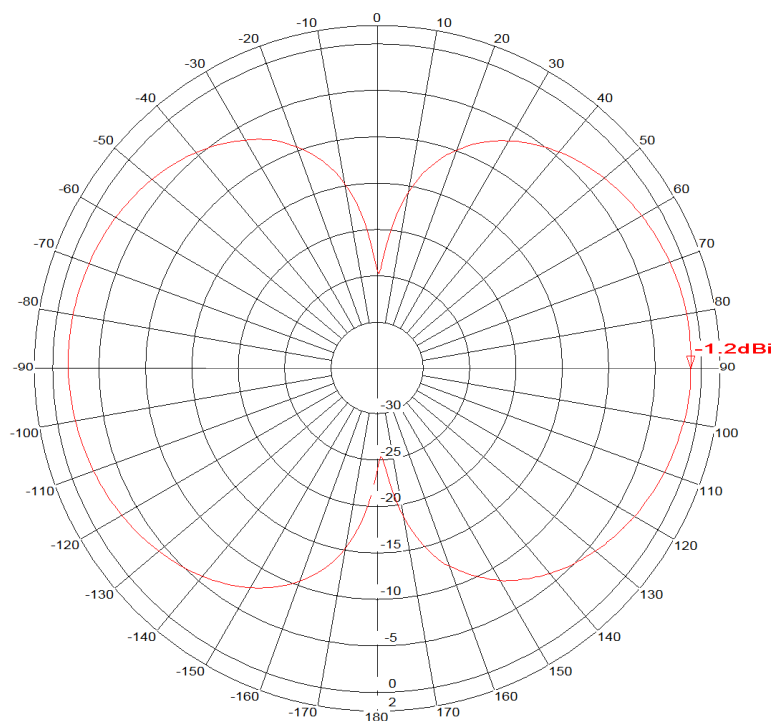
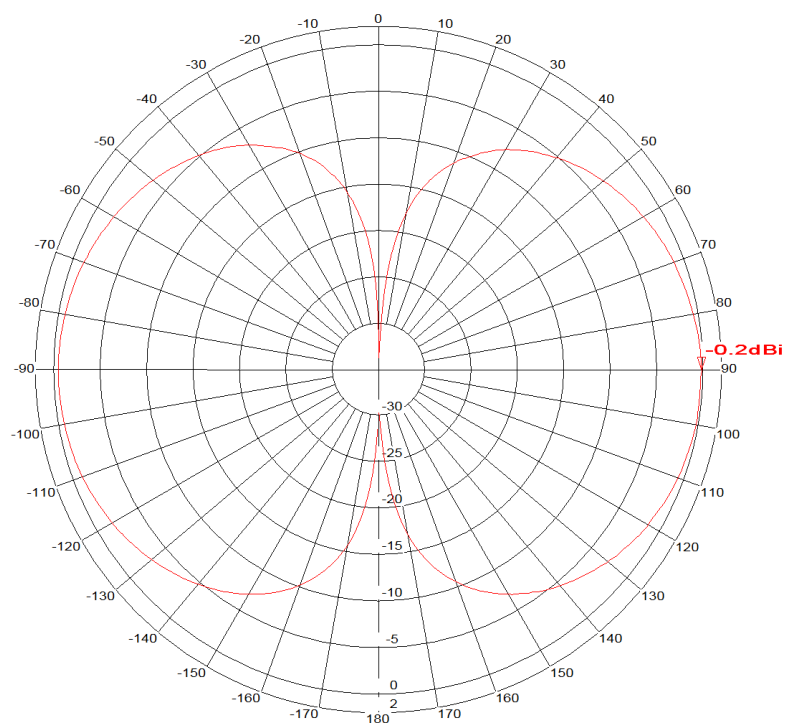
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VHF ANTENNA, FLEXIBLE WHIP**136 MHz – 174 MHz****MD10-003****Series : Antenna****CURVES****Figure 1: VSWR measured holding the radio chassis.****Figure 2: Elevation Gain Patterns @ 136 MHz****Issue : 1041**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

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VHF ANTENNA, FLEXIBLE WHIP**136 MHz – 174 MHz****MD10-003****Series : Antenna****Figure 3: Elevation Gain Patterns @ 155 MHz****Figure 4: Azimuth & Elevation Gain Patterns @ 174 MHz****Issue : 1041**

In the effort to improve our products, we reserve the right to make changes judged to be necessary.

RADIAL 