AN-225002-003

136-174 MHz, 3 dB Gain, NMO Mount

This field tunable 5/8 wave antenna features a rugged molded polymer base, and a heavy duty tapered rod for maximum durability under severe environmental conditions. Ground plane required.

Features

- The matching coil is wound around a low loss coil form to withstand severe impact shock
- Designed to mate with 1-1/8”-18 thread mounts, including 3/4” NMO
- The tapered heavy wall housing is designed to enhance appearance and prevent moisture from entering the coil housing

Electrical Specifications

Frequency Range (Tx/Rx)	Max. Power Handling	Typical Gain	VSWR (at cable end)	Impedance	Polarization
132-174 MHz	110 Watts	3 dBd	1.3:1 (typical) 1.75:1 (Max.) < 1.5:1 at resonance (without cable)	50 Ohms	Linear, Vertical

Mechanical Specifications

Antenna Height (at Lowest Frequency)	Radiator Material	Spring Material	Base Coil Housing
Approximately 58 inches	.100-.062” dia. Stainless steel	Stainless steel	Molded Polymer jacket with copper, nickel and chrome plated bushing

AN-225002-004

136-174 MHz, 2.4 dB/Unity Gain No Ground Plane, NMO Mount Compatible

This field tunable wideband antenna addresses equipment inter-operability challenges by providing superior bandwidth coverage without sacrificing performance. It features a rugged molded polymer base a heavy duty tapered rod for maximum durability under severe environmental conditions.

Features

- Outstanding bandwidth performance
- Operates with or without a ground plane without compromising VSWR performance
- The matching coil is wound around a low loss coil form to withstand severe impact shock
- Designed to mate with 1-1/8”-18 thread mounts, including 3/4” NMO
- The tapered heavy wall housing is designed to enhance appearance and prevent moisture from entering the coil housing

Electrical Specifications

Frequency Range (Tx/Rx)	Bandwidth	Max, Power Handling	Gain	VSWR (at cable end)	Impedance	Polarization
136-174 MHz	26 MHz	110 Watts	2.4 dBd with a ground plane. 0 dBd gain without a ground plane.	1.3:1 (typical) 1.75:1 (Max.) < 2.0:1 (without cable)	50 Ohms	Linear, Vertical

Mechanical Specifications

Antenna Height (at Lowest Frequency)	Radiator Material	Spring Material	Base Coil Housing
Approximately 48 inches	.125” dia. 17-7PH Stainless steel	Stainless steel	Molded Polymer jacket with copper, nickel and chrome plated bushing