



EM-MBD41002 Dual Band Duplexed Antenna Kit 108-174 MHz / 380-870 MHz

Kit Includes (no substitutions[†]):

- Duplexer (VHF/UHF-870 MHz)
- N (m) Connectors (3 ea.)
- Low Loss 195 NMO Cable (1 ea.)
- RG-58/U NMO Cable (1 ea.)
- Field Tunable Antennas
 - EM-MX0108-FT (2 ea.)
- RG-58/U Feed Cable (1 ea.)
- Installation Instructions

*Transceiver Feed Cable Connector sold separately
†Antenna Upgrades sold separately*

Features

- Optimal in-band performance with precision 50 ohm impedance and low insertion loss.
- Expandable from Dual Band to full Tri-Band coverage for ALL LMR/Public Safety Bands, VHF through 870 MHz.
- Scalable to meet system performance requirements for:
 - Frequency
 - Bandwidth
 - VSWR
 - Gain
- Upgrades/Interchangeability –
 - Accommodates user/installer preference for ¼ wave, ½ wave, Dual Element Collinear and GPI antennas without compromising required system gain.
- GPS Kits available (See available models not listed).

Electrical Specifications

Frequency Band (VHF)	100-180 MHz
Frequency Band (UHF)	380-870 MHz
VSWR (All Ports)	≤1.6:1
Impedance	50Ω
Isolation (VHF↔UHF-870)	≥50 dB
Insertion Loss	≤0.2 dB (100-180 MHz)
	≤0.3 dB (380-520 MHz)
	≤0.5 dB (746-870 MHz)
Power Rating	150W (100-180 MHz)
	100W (380-520 MHz)
	75W (746-870 MHz)
Temperature, Operating	-40° to 85° C

Mechanical Specifications

Dimensions (Duplexer)	3.27 x 2.1 x 1.1 in. (83 x 53 x 28mm)
Connectors (All)	Type N
Feed/NMO Cable Length	17 ft. (5.1m) each
Duplexer Mounting	Interior Only, #8 PHMS (2 ea. sold separately)
Antenna Mounting	¾ in. Thru-Hole NMO Mounts
Antenna Height /Type	Frequency Adjustable/Field Tunable ¼ Wave