



## EM-MBD41005

### Tri Band Duplexed Antenna Kit

**108-174 / 450-520 / 746-870 MHz**

#### Kit Includes (no substitutions<sup>‡</sup>):

- Duplexer (VHF/UHF-870 MHz)
- N (m) Connectors (3 ea.)
- EM-M11001-195 LL195 NMO Cable
- EM-M11001-058 RG-58/U NMO Cable
- EM-M22001 (450-520/746-960 MHz)
- EMFLX-M10001
  - Field Tune BB VHF
- RG-58/U Feed Cable
- Installation Instructions

*Transceiver Feed Cable Connector sold separately*

<sup>‡</sup>*Antenna Upgrades and Options sold separately*

#### Features

- Complete Tri-Band coverage for ALL LMR/Public Safety Bands operating in VHF 108-174 MHz, UHF 450-520 MHz and 746-870 MHz.
- Optimal in-band performance with precision 50 ohm impedance, low insertion loss and field tunable VHF frequency selectivity.
- Scalable to meet system performance requirements for VHF:
  - Frequency, Field Tune EMFLX-M10001<sup>†</sup>
  - VSWR & Bandwidth
  - Gain
- UHF/700/800 MHz Fixed Frequency
  - EM-M22001<sup>†</sup>
- Optional Upgrades/ Interchangeability
  - Accommodates optional user/installer preference for ¼ wave, ½ wave, 5 dB and GPI antennas without compromising required system gain.
- Model EM-MG11006-SP NMO/GPS Combination Mount can be included by purchasing model EM-MBD41004.

#### Electrical Specifications

Frequency Band (VHF)	100-180 MHz
Frequency Band (UHF)	380-870 MHz
VSWR (All Ports)	1.6:1max
Impedance	50Ω
Isolation (VHF↔UHF-870)	50 dB, min
Insertion Loss	0.2 dB, max (100-180 MHz)
	0.3 dB, max (380-520 MHz)
	0.5 dB, max (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)
Duplexer Mounting	Interior Only, #8 PHMS (2 ea. sold separately)
Antenna Mounting	¾ in. Thru-Hole NMO Mounts (2 ea.)
Connectors, Duplexer (3 ea.)	Type N
Cable Length (All)	17 ft. (5.1m)
Connector, Transceiver	Sold separately

<sup>†</sup>Reference Models EM-M11001-058, EM-M22001, EM-M11001-195 Data Sheet for performance specifications.