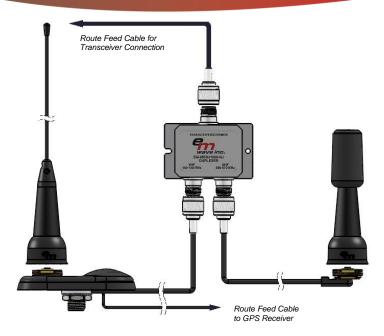


New Product Data Sheet



EM-MBD41004 Tri Band Duplexed Antenna Kit w/GPS (L1) 108-174 / 450-520 / 746-870 MHz

Kit Includes (no substitutions[‡]):

- Duplexer (VHF/UHF-870 MHz)
- N (m) Connectors (3 ea.)
- > EM-M11001-195 LL195 NMO Cable
- EM-MG11006-SP NMO/GPS
- 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 ‡Antenna Upgrades and Options sold separately

Features

- Complete Tri-Band coverage for <u>ALL</u> 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[†]
 - · VSWR & Bandwidth
 - Gain
- UHF/700/800 MHz Fixed Frequency
 - EM-M22001[†]
- Optional Upgrades/ Interchangeability
 - Accommodates <u>optional</u> 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 included for VHF/GPS band antenna installation.[†]

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 | 3/4 in. Thru-Hole NMO Mounts (2 ea.) |
| Connectors, Duplexer (3 ea.) | Type N |
| Cable Length (All) | 17 ft. (5.1m) |
| Connector, Transceiver | Sold separately |
| | |

 $^{^\}dagger$ Reference Models EM-MG11006-SP, EM-M22001, EM-M11001-195 Data Sheet for performance specifications.