Product Data Sheet



EM-MBD41000-NJ

Duplexer

108-174 MHz / 380-870 MHz

- (VHF/UHF-870 MHz)
- N-Jack Connectors
- Low Insertion Loss, All Bands
- High Power Handling
- 50 dB Port-to-Port Isolation
- Full Duplex/Bi-Directional Operation for Signal Combining or Splitting
- Specifically Designed to Augment Multi-Band LMR Applications

†Complete Multi-Band Antenna System Kits Available for LMR 108-174 MHz / 380-870 MHz Operating Bands

Electrical Specifications

Frequency Band (VHF)	100-174 MHz
Frequency Band (UHF-870)	380-870 MHz
VSWR (All Ports)	≤1.3:1
Impedance	50Ω
Isolation (VHF↔UHF-870)	≥50 dB
Insertion Loss	≤0.2 dB (100-174 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	3.27 x 2.1 x 1.1 in. (83 x 53 x 28mm)
Connectors (All)	Type N, female
Mounting	Interior Only, #8 PHMS *(2 ea. sold separately)*

†Contact sales@emwaveinc.com or visit www.emwaveinc.com for compatible antennas and Multi-Band Antenna Kit availability.
Specifications subject to change without notification.

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