

- ◆ Injects Tetra, LMR/P25, GSM-850, etc., to all other 1710 - 2700 MHz bands
- ◆ High Input Isolation
- ◆ High Average Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ Low Passive IM., PIM
- ◆ Low Cost Design



Model Number	Connectors (female)	Weight, nom. lb (kg)
BK-12D	7-16 mm	1.4 (0.65)
BK-12N	N	1.2 (0.55)

	Pass Band MHz	Pass Band Loss	Power Rating	DC Path to J3
Input J2	80 - 960	<0.3 dB	80W max	2A max
Input J1	1710 - 2700	<0.5 dB	40W max	Isolated

Microlab Model BK-12 series is a Diplexer which allows combination and separation of signals in the 80 - 960 MHz and 1710 - 2700 MHz wireless bands. To minimize band interaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. Attention to mechanical design ensures low passive intermodulation.

The Diplexer is designed using passive, proprietary techniques for low loss and high reliability (04/11)

Input Isolation:	>50 dB
Input J1/J2 VSWR:	<1.2:1
Peak Power Rating:	3 kW peak
Impedance:	50Ω nominal
Intermod. (PIM):	<-150 dBc tested with 2 x +43dBm tones
Environment:	IP64, -35°C to +55°C (IP67 to order)
Finish: Connectors:	Triplate
Housing:	RoHS coated aluminum

