

- ◆ Injects Tetra or LMR/P25 to all other 698 - 2700 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-24D	7-16 mm	2.2 (1.0)
BK-24N	N	1.9 (0.8)

Microlab Model BK-24 series is a Diplexer which allows combination and separation of signals in the 80 - 520 MHz and 698 - 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 (10/09)

	Pass Bands, MHz	Input Isolation	Pass Band Loss
Input P1	80 - 520	>50 dB	<0.3 dB
	698 - 800	>40 dB	
Input P2	800 - 2500	>50 dB	<0.5 dB
	2500 - 2700	>30 dB	

VSWR, all ports:	<1.35:1; typically <1.30:1, except <1.60:1 in band 960 - 1500 MHz
Power Rating (per Input):	50 Watts avg., 3 kW peak
Impedance:	50Ω nominal
Intermod. (PIM):	<-150 dBc with 2 x +43dBm tones
Environment:	IP65, -35°C to +65°C
Finish: Connectors:	Triplate
Housing:	Passivated aluminum

