

- ◆ Integrates Tetra & Cellular
- ◆ High Input Isolation
- ◆ High Average Power
- ◆ Minimal RF Insertion Loss
- ◆ Rugged, High Reliability
- ◆ Low Passive IM., PIM
- ◆ Low Cost Design



Model Number	Connectors (female)	Port 1 - 3 (MHz)	Port 2 - 3 (MHz)	In Band Isolation P1	P2	Pass Band Loss P1:P3	P2:P3	Power Rating P1 avg.	P2 avg	Weight lb (kg)	
BK-22D	7-16 mm	380 - 520	800 - 960	>50 dB	>45 dB	<0.3dB	<0.5dB	2	50W	150W	3.8 (1.75)
BK-22N	N	+ 1A dc									3.5 (1.60)

Microlab Model BK-22 series is a Diplexer which allows combination and separation of signals in the 380 - 520 MHz and 800 - 960 MHz wireless bands. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. Attention to mechanical design ensures low passive inter-modulation.

The Diplexer is designed using passive, proprietary techniques for low loss and high reliability (8/08)

VSWR, all ports: 1.25:1 max.
 Peak Power Rating: 3 kW peak
 Impedance: 50Ω nominal
 Intermod. (PIM): <-140 dBc* with 2 x +43dBm tones
 Environment: IP65, -35°C to +55°C
 Finish: Connectors: Triplate
 Housing: Passivated aluminum
 *PIM guaranteed to <-150 dBc available to special order

