

Diplexer, BK-24 series

TETRA-LMR Injector to standard wireless bands 80 - 520/694 - 2700 MHz Rev. G

- Inject Tetra or LMR in to existing standard networks
- Guaranteed Low PIM
- Meets European Rail Standard EN50155:2001 (Class T1)
- High Input Isolation
- 50W/120W Power Rating
- 4.3-10 & N-type Connectors
- RoHS Compliant

Microlab BK-24 series diplexer allows combination and separation of signals in the 80 - 520 MHz and 694 - 2700 MHz wireless bands. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands. The diplexer is designed using passive, proprietary techniques for low loss, low PIM and high reliability For use in outdoor environments add the suffix 'P' to Mod-

el No. (e.g. BK-24EP).

Input Port	Frequency MHz	Input Isolation,dB	Insertion Loss, dB	Power Rating
P1	80-520 694-800	>50 >40	<0.3	50 W avg 3 kW peak
P2	800-2500 2500-2700	>50 >30	<0.5	120 W avg 3 kW peak

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PIM:
Input VSWR:
DC Pass: Impedance: Environment: Housing Finish: Outdoor:
Connectors:

-161 dbc (-118 dBm) min. (Test with 2x +43dBm tones) 1.30 typ., 1.35:1 max., 1.60:1 max. @ 960-1500 MHz 3A max., Port P1 only 50 Ω nom. -35 to +65°C, IP67 Passivated Aluminum Painted (Add P to Model No) Female Triplate

Model no.	Connectors	Weight lb (kg)		
BK-24E	4.3-10	1.9 (0.8)		
BK-24N	N-type	1.9(0.8)		
Add 'P' to Model Number for Outdoor Use				

Outline



Note: Specifications are subject to change without prior notification.

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