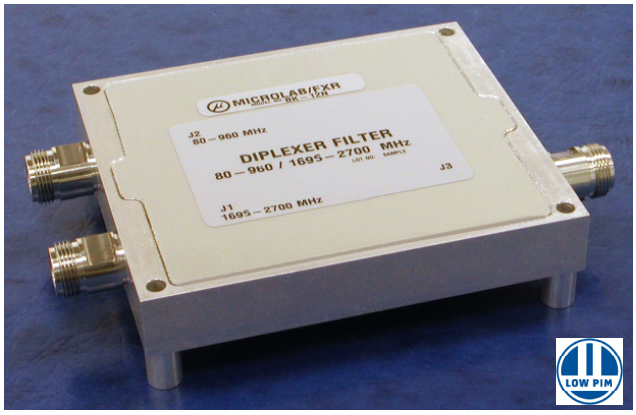
Ultra Wideband Diplexer, BK-12 series

80 - 960 MHz Injector to other Wireless Bands
80 - 960/1695 - 2700 MHz, N or 4.3-10
Rev. G

- Injects Tetra, LMR/P25, GSM-850, etc., to other 1695 - 2700 MHz bands
- IP67 Outdoor Environment
- Low Passive IM., PIM
- High Input Isolation
- Minimal RF Insertion Loss
- Rugged, High Reliability, RoHS
- Meets European Rail Standard EN50155:2007 (Class T3)



Model Number	Connectors (female)	Weight. nom. lb (kg)
BK-12E	4.3-10	1.2 (0.55)
BK-12N	N	1.2 (0.55)

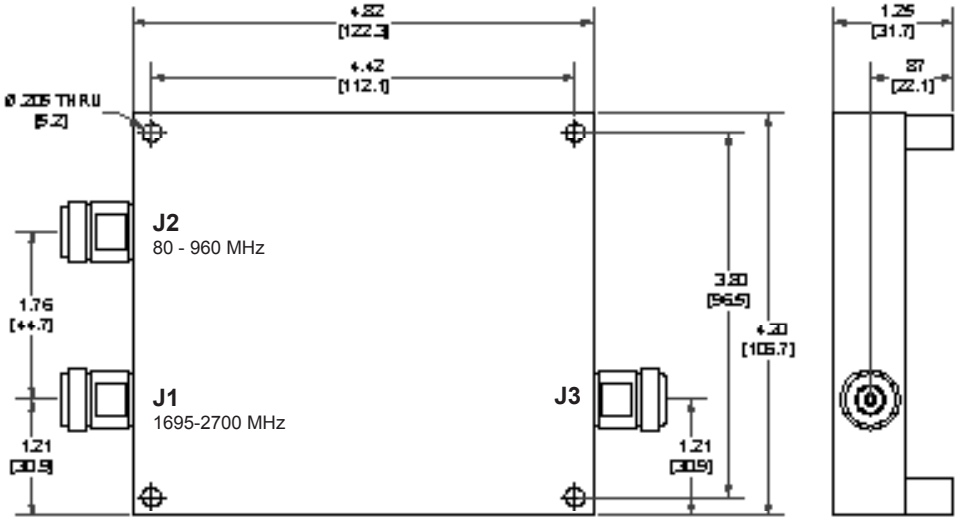
	Pass Band MHz	*DC Path to J3	Pass Band Loss	Power Rating Avg., peak
Input J2	80 - 960	2A max	<0.3 dB	120W max, 3kW
Input J1	1695 - 2700	Isolated	<0.5 dB	120W max, 3kW

*DC path: DC to 20 MHz

Microlab Model BK-12 series is a Diplexer which allows combination and separation of signals in the 80 - 960 MHz and 1695 - 2700 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 intermodulation. The Diplexer is designed using passive, proprietary techniques for low loss and high reliability.

Connectors, spaced to allow controlled wrench tightening, are available with alternate genders.

Input Isolation:	>50 dB
Input J1/J2 VSWR:	<1.2:1
Peak Power Rating:	3 kW peak
Impedance:	50Ωnominal
Intermod. (PIM):	<-155 dBc; -161 dBc typ. 2 x +43dBm tones
Environment:	-35 to +70°C
Housing Finish:	
Outdoor/IP67:	Standard model Passivated Al.
Connectors:	Triplate



Note: Specifications are subject to change without prior notification.

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