Diplexer Filter, BK-20 series

Cellular/GSM, GSM-1800-UMTS Diplexer
700 - 960/1710 - 2170 MHz

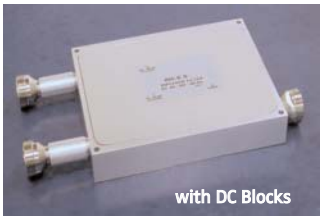
- Integrates Wireless Bands
- 50 dB Input Isolation
- 250 W/port Avg. Power
- Minimal RF Insertion Loss
- Rugged, High Reliability,
- Low Passive IM., PIM
- Very Low Cost Design
- RoHS compliant

Microlab Model BK-20 series is a Diplexer which allows combination and separation of the signals in 700 - 960 MHz and the 1710 - 2170 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.

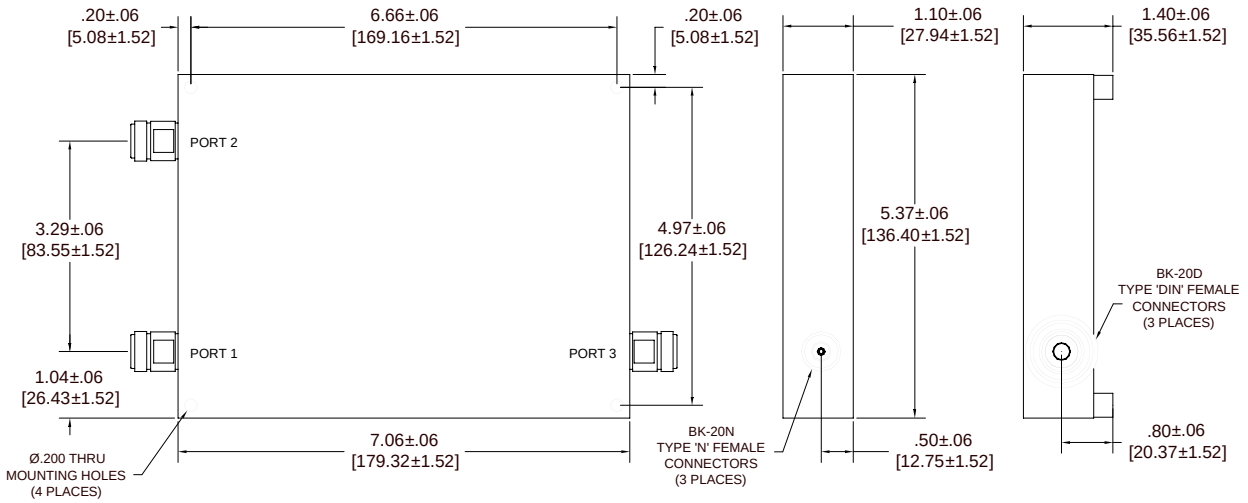
The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 250W per input.

DC Blocks may be added and through holes are provided for mounting to a surface. Spacers are available for single and also dual unit mounting for up and down link applications (see below). (8/08)


BK-40 Dual


with DC Blocks

Model BK-20D	7-16 mm DIN (f) connectors
Model BK-20N	N (f) connectors
Frequency Bands:	
Port 1 - Port 3:	700 to 960 MHz
Port 2 - Port 3:	1,710 to 2,170 MHz
P1:P2 Isolation:	>50 dB in band
VSWR, all ports:	1.25:1 max. (for 1.12:1 max., see BK-40 ser.)
DC Continuity:	All ports, 1A max. DC blocks on either path optional
Passband Loss:	<0.15 dB (700 - 960 MHz) <0.25 dB (1710 - 2170 MHz)
Input Power Rating:	250W/input avg., 3 kW peak
Impedance:	50Ω nominal
Intermod. (PIM):	<-150 dBc (Call for <-160 dBc) with 2 x +43dBm (20W) tones
Environment:	-35°C to +55°C, IP68
Finish:	
Connectors:	Silver plated or Triplate
Housing:	Conversion coated
Weight, nominal:	3.25 lbs (1.5 kg)



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