

## **Diplexer Filter, BK-20 series**

Cellular/GSM, GSM-1800-UMTS Diplexer 698 - 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 698 - 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.

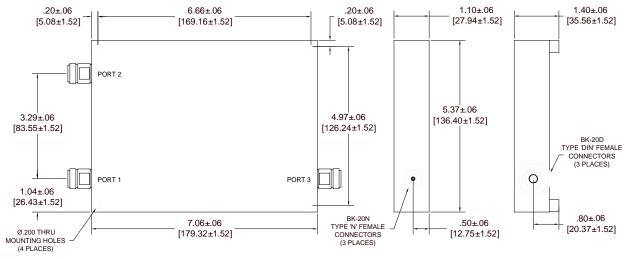
The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size. At the same time it ensures minimal loss and very high reliability at input powers up to 250W per input.

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). (04/10)





Model BK-20D 7-16 mm DIN (f) connectors N (f) connectors Model BK-20N Frequency Bands: Port 1 - Port 3: 698 to 960 MHz Port 2 - Port 3: 1,710 to 2,170 MHz >50 dB in band P1:P2 Isolation: 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 (698 - 960 MHz) <0.25 dB (1710 - 2170 MHz) Input Power Rating: 250W/input avg., 3 kW peak  $50\Omega$  nominal Impedance: <-150 dBc (Call for <-160 dBc) Intermod. (PIM): with 2 x +43dBm (20W) tones Environment: -35 to +55°C, IP64 (IP67 to order) Finish: Connectors: Silver plated or Triplate Housing: Conversion coated Weight, nominal: 3.25 lbs (1.5 kg)



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