LTE Diplexer Filter, BK-51 series
Cellular-GSM and LTE-2600 Diplexers
694-960/2400-2700 MHz, N or 7-16
Rev. F

- Integrates LTE & 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-51 series Diplexers allow combination and separation of the signals in 694 - 960 MHz wireless band with the LTE-2600 range of 2490 - 2690 MHz and the WiFi band 2400 - 2490 MHz.

Inputs are isolated >50 dB with minimal insertion loss over their frequency bands. The Diplexer has been designed using passive, proprietary techniques which minimizes cost and size and ensures low PIM. Desired DC/AISG paths are available at time of order.

### Model Numbers

<table>
<thead>
<tr>
<th>Low Band (MHz)</th>
<th>High Band (MHz)</th>
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<tr>
<td>Port 1, J1:J3</td>
<td>Port 2, J2:J3</td>
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<tr>
<td><strong>BK-51D</strong></td>
<td><strong>BK-51N</strong></td>
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<td>694 - 960</td>
<td>2400 - 2700</td>
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### Specifications

- **J1:J2 Isolation:** >50 dB in band
- **Return Loss:** >19 dB, all ports
- **Passband Loss:**
  - J1:J3 <0.15 dB typ., 0.25 max.
  - J2:J3 <0.20 dB typ., 0.30 max.
- **Input Power Rating:** 250W/input avg., 3 kW peak
- **Impedance:** 50Ω nominal
- **Intermod. (PIM):** <-150 dBc (Call for <-155 dBc) with 2 x +43dBm (20W) tones
- **Environment:** -35°C to +55°C, IP64 (IP67 to order)
- **Finish:**
  - Connectors: Triplate
  - Housing: RoHS coated aluminum
- **Weight, nominal:** 2.7 lbs (1.25 kg)

Note: Specifications are subject to change without prior notification.

Call for BK-51D outline

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