Microlab Model BK-10 series is a Diplexer which allows combination and separation of the signals in 694 - 960 MHz and the 1710 - 2170 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 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 20W per input. Powers to 250W per input, 7-16 mm connectors and ultra low PIM are available in the BK-20 series.

### Integrates Wireless Bands
- 50 dB Input Isolation
- 20W/port Avg. Power
- Minimal RF Insertion Loss
- Rugged, High Reliability,
- Low Passive IM., PIM
- Low Cost Design
- RoHS compliant

### Technical Specifications

<table>
<thead>
<tr>
<th>Model Numbers</th>
<th>Port J1:J3</th>
<th>Port J2:J3</th>
<th>Return Loss</th>
<th>Isolation</th>
<th>Pass Band</th>
<th>Loss</th>
<th>Power/Port</th>
<th>Weight avg./pk. oz (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>N-Conn 4.3-10</td>
<td>Port J1:J3</td>
<td>Port J2:J3</td>
<td>All Ports All Ports</td>
<td>J1:J2</td>
<td>J2:J3</td>
<td>avg./pk.</td>
<td>avg./pk.</td>
<td>avg./pk.</td>
</tr>
<tr>
<td>BK-10N</td>
<td>694 - 960 + 1A dc</td>
<td>1710 - 2170 + 1A dc</td>
<td>&gt;19 dB</td>
<td>&gt;50 dB</td>
<td>&lt;0.4dB</td>
<td>&lt;0.6dB</td>
<td>20W/3kW</td>
<td>20 (560)</td>
</tr>
<tr>
<td>BK-10E</td>
<td>694 - 960 + 1A dc</td>
<td>1710 - 2170 + 1A dc</td>
<td>&gt;19 dB</td>
<td>&gt;50 dB</td>
<td>&lt;0.4dB</td>
<td>&lt;0.6dB</td>
<td>20W/3kW</td>
<td>20 (560)</td>
</tr>
</tbody>
</table>

### Notes
- Specifications are subject to change without prior notification.

### Dimensions

- Dimensions in inches [mm]
- Ø 2.05 THRU [5.2]
- 4.54 [115.3]
- 4.16 [105.8]
- 1.9 [4.8]
- .19 [4.8]
- 1.32 [33.6]
- 1.02 [25.9]
- 3.16 [80.3]
- 2.79 [70.8]

### Additional Information
- Impedance: 50Ω nominal
- Intermod. (PIM): <-140 dBC with 2 x +43dBm tones
- Environment: -35°C to +55°C, IP64 (IP67 to order)
- Finish:
  - Connectors: Triplate
  - Housing: RoHS coating

**Note:** Specifications are subject to change without prior notification.