Combines VHF FM (84.5-108 MHz) to VHF Public Safety (148-300 MHz)
High Input Isolation
High Average Power
Minimal RF Insertion Loss
Rugged, High Reliability
RoHS compliant

### Specifications

#### Pass Bands, MHz

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Connectors (female)</th>
<th>Weight, nom. lb (kg)</th>
<th>Input P1 84.5 - 108</th>
<th>Input P2 148 - 300</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK-05D</td>
<td>7-16</td>
<td>3.0 (1.4)</td>
<td>&gt;50 dB</td>
<td>&gt;50 dB</td>
</tr>
<tr>
<td>BK-05N</td>
<td>N</td>
<td>3.0 (1.4)</td>
<td>&lt;1.4 dB</td>
<td>&lt;1.8 dB</td>
</tr>
</tbody>
</table>

*Isolation >40 dB in Range 148-160 MHz

#### Input Return Loss:

- >15 dB
- >18 dB typ

#### Impedance:

- 50Ω nominal

#### Housing Finish:

- Indoor/IP64: Standard model
- Passivated Al.

#### Environment:

- -35 to +65°C

#### Connectors:

- Triplate

### Microlab Model BK-05 Series

Microlab Model BK-05 series is a Diplexer which allows combination and separation of signals in the 84.5 - 108 MHz and 148 - 300 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 is designed using passive, proprietary techniques for low loss, low PIM and high reliability.

Note: Specifications are subject to change without prior notification.