Ultra Wideband Diplexer, BK-12 series
80 - 960 MHz Injector to other Wireless Bands
80 - 960/1695 - 2700 MHz, N, 4.3-10 or 7-16 DIN
Rev. D

- Injects Tetra, LMR/P25, GSM-850, etc., to other 1695 - 2700 MHz bands
- Models for Outdoor Environments
- Low Passive IM, PIM
- High Input Isolation
- High Average Power
- Minimal RF Insertion Loss
- Rugged, High Reliability, RoHS

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Connectors (female)</th>
<th>Weight. nom. lb (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK-12D</td>
<td>7-16 mm</td>
<td>1.4 (0.65)</td>
</tr>
<tr>
<td>BK-12E</td>
<td>4.3-10</td>
<td>1.2 (0.55)</td>
</tr>
<tr>
<td>BK-12N</td>
<td>N</td>
<td>1.2 (0.55)</td>
</tr>
</tbody>
</table>

Add ‘P’ to Model Number for Outdoor Use

Microlab Model BK-12 series is a Diplexer which allows combination and separation of signals in the 80 - 960 MHz and 1695 - 2700 MHz wireless bands. To minimize band inter-react, 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 is designed using passive, proprietary techniques for low loss and high reliability.

Connectors, spaced to allow controlled wrench tightening, are available with alternate genders. For outdoor environments add the suffix ‘P’ to Model No. (e.g. BK-12NP).

Specs:
- Input Isolation: >50 dB
- Input Return Loss: >21 dB
- Peak Power Rating: 3 kW peak
- Impedance: 50 Ohm nominal
- Intermod. (PIM): <-161 dBc
- 2 x +43dBm tones
- Environment: -35 to +65°C
- Housing Finish:
  - Indoor/IP64: Standard model
  - Outdoor/IP67: Painted
    Add P to Model No.
- Connectors: Triplate

Note: Specifications are subject to change without prior notification.