Microlab Model BK-30 series is a three input Triplexer which allows combination and separation of the signals in each wireless band. To minimize band inter-reaction, the inputs are well isolated and have minimal insertion loss over their respective frequency bands.

The Triplexer has been designed using passive, proprietary techniques which minimizes cost and size. Through holes are provided for simple mounting to a surface or cable tray using N connectors. (12/14)

### Combiner for Feeder Sharing
- High Input Isolation
- Minimal RF Insertion Loss
- 40/10 W Avg Port Input Power Rating
- Rugged, High Reliability
- Low Passive IM, PIM
- Low Cost, RoHS Design

<table>
<thead>
<tr>
<th>Frequency, MHz</th>
<th>Band</th>
<th>Port</th>
<th>Passband Loss</th>
<th>Input Return Loss</th>
<th>Power/Input</th>
<th>DC Path</th>
</tr>
</thead>
<tbody>
<tr>
<td>380 to 2170 MHz</td>
<td>Tetra-Cellular</td>
<td>2</td>
<td>1.3 dB, typ ≤1 dB</td>
<td>&gt;12 dB</td>
<td>40W avg., 3 kW pk</td>
<td>1A max.</td>
</tr>
<tr>
<td>2400 to 2690 MHz</td>
<td>Wifi (b, g &amp; n)</td>
<td>1</td>
<td>1.3 dB, typ ≤1 dB</td>
<td>&gt;12 dB</td>
<td>10W avg., 3 kW pk</td>
<td>Isolated</td>
</tr>
<tr>
<td>3300 to 5825 MHz</td>
<td>WiMAX &amp; WiFi (a)</td>
<td>3</td>
<td>1.3 dB, typ ≤1 dB</td>
<td>&gt;12 dB</td>
<td>10W avg., 3 kW pk</td>
<td>Isolated</td>
</tr>
</tbody>
</table>

**Input Isolation:** >50 dB in band except >45 dB @ 2.4-2.5 GHz

**Impedance:** 50Ω nominal

**Intermod. (PIM):** <-150 dBc (with 2 x +40dBm)

**Environment:** 0 to +50°C, IP64, (IP67 to order)

**Housing:** Passivated Aluminum

**Connectors:** N(f) Trimetal

**Weight, nom:** 32 oz (0.90 kg)