AWS/PCS Diplexer Filter, BK-741

PCS 1900 +G +H Band and AWS-1 + AWS-3 Band Diplexer
1850 - 2000/1695 - 1780 & 2110 - 2180 MHz
Rev. C

Microlab BK-741 is a Diplexer which allows combination and separation of the signals in the AWS bands 1695 - 1780 MHz and 2110 - 2180 MHz with the PCS band 1850 - 2000 MHz. 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 250W per input. Mounting brackets are included.

Integrates AWS-1, AWS-3 & PCS/GSM Bands
50 dB Input Isolation
Minimal RF Insertion Loss & Ripple
Includes Mounting Bracket

Low PIM Guaranteed
Up to 250 W CW/Input Avg.
Rugged, High Reliability,
RoHS compliant

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Assembly Connector</th>
<th>Max Power</th>
<th>Weight, nom.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>Type</td>
<td>Type</td>
<td>per Input</td>
</tr>
<tr>
<td>BK-741D</td>
<td>Single</td>
<td>7-16 long</td>
<td>250W</td>
</tr>
<tr>
<td>BK-741DW</td>
<td>Dual</td>
<td>7-16 long</td>
<td>250W</td>
</tr>
<tr>
<td>BK-741E</td>
<td>Single</td>
<td>4.3-10</td>
<td>250W</td>
</tr>
<tr>
<td>BK-741N</td>
<td>Single</td>
<td>N type</td>
<td>250W</td>
</tr>
</tbody>
</table>

Frequency Bands:
- Port 1 - Port 3: 1695-1780 & 2110-2180 MHz
- Port 2 - Port 3: 1850 - 2000 MHz

Phase Linearity: ±3° max. in any 4 MHz band
Group Delay: 10 ns max. in any 4 MHz band
Passband Ripple: <0.4 dB in any 4 MHz band
P1P2 Isolation: >50 dB in band
Return Loss: >19 dB, all ports
Passband Loss: <0.3 dB
Intermod. Distortion: <-161 dBc (2 x +43dBm tones)
DC Path: All paths
Impedance: 50Ω nominal
Ground Lug: M8 Screw
Environment: -40°C to +85°C, IP67
Lightning Protection: 8/20µs, 20kA
10/350µs, 3kA (port ANT)
Finish: Connectors: N(f), 4.3-10 or 7-16 (f) triplate
Housing: Grey color epoxy coating

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Note: Specifications are subject to change without prior notification.

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Outline BK-741D

Outline BK-741DW

Dimensions in mm [in]
Outline
BK-741N and BK-741E

Dimensions in mm [in]