Microstrip Dual-junction Circulators

FEATURES:
- Frequency coverage: 2.0 to 40 GHz
- Broad bandwidth
- Low insertion loss and high isolation
- Single magnet and compact design

APPLICATIONS:
- Port isolations
- Module integrations

DESCRIPTION:
Cernexwave’s CDCM series microstrip Dual-junction circulators are offered to cover the frequency range of 2.0 to 40 GHz. These circulators are designed and manufactured to provide low insertion loss and high isolation for microstrip line based component and module integrations. The 50 Ω input and output microstrip line configuration is immediately ready for circuit insertion. The circulator offers duplexing functions in many radar and communication systems. Microstrip Dual-junction circulators (substrate and on carrier styles) are offered for customers to choose from.

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Frequency Range (GHz)</th>
<th>Band Width (MHz)</th>
<th>Insert.Loss (dB Max)</th>
<th>Isolation (dB Min)</th>
<th>VSWR (Max)</th>
<th>Operating Temp. Range (°C)</th>
<th>Size LXWXH (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDCM050504081830G</td>
<td>5.2-5.8</td>
<td>full</td>
<td>0.4 (1-2) 0.8 (2-3)</td>
<td>18 (2-1) 30 (3-2)</td>
<td>1.30</td>
<td>-40 to 70</td>
<td>13x14.5x5</td>
</tr>
<tr>
<td>CDCM081208131717G</td>
<td>8-12</td>
<td>full</td>
<td>0.8 (2-1) 1.3 (1-3)</td>
<td>17 (1-2) 17 (3-2) 30 (3-1)</td>
<td>1.30</td>
<td>-40 to 70</td>
<td>10.5x11x4</td>
</tr>
<tr>
<td>CDCM090905102030H</td>
<td>9.0-9.6</td>
<td>full</td>
<td>0.5 (2-1) 1.0 (1-3)</td>
<td>20 (1-2) 30 (3-1)</td>
<td>1.25</td>
<td>-40 to 85</td>
<td>12x9 x3</td>
</tr>
<tr>
<td>CDCM111205081836G</td>
<td>11.9-12.2</td>
<td>full</td>
<td>0.5 (1-2) 0.8 (2-3)</td>
<td>18 (2-1) 36 (3-2)</td>
<td>1.30</td>
<td>-40 to 70</td>
<td>12x7.5x4</td>
</tr>
<tr>
<td>CDCM161705102030H</td>
<td>16.3-17.2</td>
<td>full</td>
<td>0.5 (2-1) 1.0 (1-3)</td>
<td>20 (1-2) 20 (2-3) 20 (3-2) 30 (3-1)</td>
<td>1.25</td>
<td>-40 to 85</td>
<td>6.5 x 6 x 3</td>
</tr>
</tbody>
</table>

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.
Microstrip Dual-junction Circulators

Specify Model Number

CDCM - LF HF ILIL ISIS – XX

To be specified by the factory

Isolation

Insertion Loss

High End Frequency

Low End Frequency

Example: To order a 8-12 GHz Microstrip Dual-junction Circulator with 0.8 (2-1), 1.3 (1-3) dB maximum insertion loss and 17 (1-2), 17 (3-2) dB minimum isolation, specify CDCM-081208131717G-XX.

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