Description

2501.17.0100 is a 4 port quadraplexer which allows combination and separation of the signals in 380-960 / 1710-1880 / 1920-2170 / 2500-2690 MHz wireless bands. To minimize band inter-reaction, the inputs have an isolation > 50dB and have minimal insertion loss < 0.3 dB over their respective frequency bands.

Technical Data

Electrical Data

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency (MHz)</th>
<th>Insertion loss (dB)</th>
<th>Return loss (dB)</th>
<th>Group delay</th>
<th>Group delay distortion</th>
<th>Band delay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Band 1</td>
<td>0.38 - 0.96 GHz</td>
<td>0.3 dB</td>
<td>18 dB</td>
<td>0.1 µs</td>
<td>5 ns</td>
<td></td>
</tr>
<tr>
<td>Band 2</td>
<td>1.71 - 1.88 GHz</td>
<td>0.3 dB</td>
<td>18 dB</td>
<td>0.25 µs</td>
<td>20 ns</td>
<td></td>
</tr>
<tr>
<td>Band 3</td>
<td>1.92 - 2.17 GHz</td>
<td>0.3 dB</td>
<td>18 dB</td>
<td>0.25 µs</td>
<td>20 ns</td>
<td></td>
</tr>
<tr>
<td>Band 4</td>
<td>2.5 - 2.69 GHz</td>
<td>0.3 dB</td>
<td>18 dB</td>
<td>0.25 µs</td>
<td>20 ns</td>
<td></td>
</tr>
</tbody>
</table>

Max. composite power
- Band 1: 700 W
- Band 2: 300 W
- Band 3: 200 W
- Band 4: 200 W

Peak envelope power
- Band 1: 1500 W
- Band 2: 1500 W
- Band 3: 1500 W
- Band 4: 1500 W

Intermodulation distortion
- Band 1: -155 dBc
- Band 2: -155 dBc
- Band 3: -155 dBc
- Band 4: -155 dBc

@ 2 x carrier power
- Band 1: 43 dBm
- Band 2: 43 dBm
- Band 3: 43 dBm
- Band 4: 43 dBm

Port Designation
- PORT 1
- PORT 2
- PORT 3
- PORT 4

Connector Type
- PORT 1: 7/16 jack (female)
- PORT 2: 7/16 jack (female)
- PORT 3: 7/16 jack (female)
- PORT 4: 7/16 jack (female)

Gender
- PORT 1: jack (female)
- PORT 2: jack (female)
- PORT 3: jack (female)
- PORT 4: jack (female)

DC/AISG bypass

Mechanical Data

- Width: 223 mm
- Height: 232 mm
- Depth: 50 mm
- Weight: 4.6 kg

Environmental Data

- Environmental conditions: indoor/outdoor
- Operation temperature: -40 °C to 65 °C
- Storage temperature: -40 °C to 65 °C
- Transport temperature: -40 °C to 65 °C
- IP rating: IP67
- 2011/65/EU (RoHS - including 2015/863 and 2017/2102) compliant
- 1907/2006/EC (REACH) compliant
Data Sheet

380-960 / 1710-1880 / 1920-2170 / 2500-2690 MHz
2501.41.0100

Material Data

<table>
<thead>
<tr>
<th>Housing Material</th>
<th>Aluminium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface treatment</td>
<td>Black Paint</td>
</tr>
</tbody>
</table>

Related Documents

<table>
<thead>
<tr>
<th>Outline drawing</th>
<th>DOU-00319165</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D-model (Step)</td>
<td>DOC-0000735150</td>
</tr>
</tbody>
</table>

Waiver: Fact and figures herein are for information only and do not represent any warranty of any kind.