Multilayer Balun
For 2300-2700MHz

HHM15107A2

2.0×1.25mm [EIA 0805]*
* Dimensions Code JIS[EIA]
Multilayer Balun
For 2300-2700MHz

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SHAPES AND DIMENSIONS

[Top view]

[Bottom view]

Terminal functions
1 Unbalanced port
2 GND or DC feed+ RF GND
3 Balanced port
4 Balanced port
5 GND
6 N.C.

Dimensions in mm

RECOMMENDED LAND PATTERN

Dimensions in mm


• All specifications are subject to change without notice.
• Before using these products, be sure to request the delivery specifications.
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**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Item</th>
<th>Frequency Range (MHz)</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unbalanced Impedance (Ω)</td>
<td>50 (Nominal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balanced Impedance (Ω)</td>
<td>50 (Nominal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unbalanced Port Return Loss (dB)</td>
<td>2300 to 2700</td>
<td>9</td>
<td>9.6</td>
<td>—</td>
</tr>
<tr>
<td>Phase Imbalance at Balanced Port (deg.)</td>
<td>2300 to 2700</td>
<td>170</td>
<td>177.5</td>
<td>190</td>
</tr>
<tr>
<td>Amplitude Imbalance at Balanced Port (dB)</td>
<td>2300 to 2700</td>
<td>−2.0</td>
<td>−0.26</td>
<td>2.0</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>2300 to 2700</td>
<td>—</td>
<td>1.03</td>
<td>1.2</td>
</tr>
</tbody>
</table>

**TEMPERATURE RANGE**

<table>
<thead>
<tr>
<th>Operating temperature (°C)</th>
<th>Storage temperature (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>−40 to +85</td>
<td>−40 to +85</td>
</tr>
</tbody>
</table>

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**FREQUENCY CHARACTERISTICS**

**INSERTION LOSS**

**AMPLITUDE BALANCE**

**RETURN LOSS**

**PHASE BALANCE**

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**RECOMMENDED REFLOW PROFILE**

<table>
<thead>
<tr>
<th></th>
<th>Preheating</th>
<th>Soldering (T3 to T4)</th>
<th>Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temp.</strong></td>
<td>T1</td>
<td>T2</td>
<td>T3</td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td>t1</td>
<td>t2</td>
<td>t3</td>
</tr>
<tr>
<td><strong>Temp.</strong></td>
<td>150°C</td>
<td>200°C</td>
<td>217°C</td>
</tr>
<tr>
<td><strong>Time</strong></td>
<td>60 to 120sec</td>
<td>60 to 120sec</td>
<td>30sec max.</td>
</tr>
</tbody>
</table>

* T3: Time within 5°C of actual peak temperature

The maximum number of reflow is 3.

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REMINDERS FOR USING THESE PRODUCTS

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SAFETY REMINDERS

Please pay sufficient attention to the warnings for safe designing when using these products.

⚠️ REMINDERS

The products listed on this catalog are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.

The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.

Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below or for any other use exceeding the range or conditions set forth in this catalog.

(1) Aerospace/Aviation equipment
(2) Transportation equipment (cars, electric trains, ships, etc.)
(3) Medical equipment
(4) Power-generation control equipment
(5) Atomic energy-related equipment
(6) Seabed equipment
(7) Transportation control equipment
(8) Public information-processing equipment
(9) Military equipment
(10) Electric heating apparatus, burning equipment
(11) Disaster prevention/crime prevention equipment
(12) Safety equipment
(13) Other applications that are not considered general-purpose applications

When using this product in general-purpose applications, you are kindly requested to take into consideration securing protection circuit/equipment or providing backup circuits, etc., to ensure higher safety.

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