Multilayer Balun
For 680-1100MHz

HHM1522E3

2.0×1.25mm [EIA 0805]*
* Dimensions Code JIS[EIA]
Multilayer Balun
For 680-1100MHz

HHM1522E3

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.
## 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 Port Characteristic Impedance (Ω)</td>
<td>50 (Nominal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Balanced Port Characteristic Impedance (Ω)</td>
<td>50 (Nominal)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Return Loss at Unbalanced Port (dB)</td>
<td>680 to 1100</td>
<td>9.5</td>
<td>11.1</td>
<td>—</td>
</tr>
<tr>
<td>Phase Balance (deg.)</td>
<td>680 to 1100</td>
<td>175</td>
<td>180.2</td>
<td>185</td>
</tr>
<tr>
<td>Amplitude Balance (dB)</td>
<td>680 to 1100</td>
<td>–0.9</td>
<td>0.61</td>
<td>0.9</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>680 to 1100</td>
<td>—</td>
<td>1.33</td>
<td>1.5</td>
</tr>
<tr>
<td>Power Handling (W)</td>
<td>680 to 1100</td>
<td>—</td>
<td>—</td>
<td>0.5</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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RECOMMENDED REFLOW PROFILE

Preheating

<table>
<thead>
<tr>
<th>Temp.</th>
<th>Time</th>
<th>T1</th>
<th>T2</th>
</tr>
</thead>
<tbody>
<tr>
<td>150°C</td>
<td>200°C</td>
<td>t1</td>
<td>t2</td>
</tr>
</tbody>
</table>

Soldering

Critical zone (T3 to T4)

<table>
<thead>
<tr>
<th>Temp.</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>217°C</td>
<td>60 to 120sec</td>
</tr>
</tbody>
</table>

Peak

<table>
<thead>
<tr>
<th>Temp.</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>240 to 260°C</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

Before using these products, be sure to request the delivery specifications.

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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