Multilayer Balun
For 824-894MHz

HHM1522A7

2.0×1.25mm [EIA 0805]*
* Dimensions Code JIS[EIA]
Multilayer Balun
For 824-894MHz

**HHM1522A7**

**SHAPES AND DIMENSIONS**

[Top view]

- Unbalanced port
- GND or DC feed+ RF GND
- Balanced port
- Balanced port
- GND
- N.C.

[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:

- 1.25±0.15
- 0.95±0.10
- 0.65±0.20
- 0.30±0.20
- 0.35±0.20
- 0.25±0.12
- 0.20±0.15
- 0.10

**RECOMMENDED LAND PATTERN**

Dimensions in mm:

- 0.80
- 0.50
- 0.30
- 0.36


• All specifications are subject to change without notice.
• Before using these products, be sure to request the delivery specifications.
The products in this catalog are not recommended for new design

RF Components

HHM1522A7

### 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>824 to 894</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Phase Balance (deg.)</td>
<td>824 to 894</td>
<td>170</td>
<td></td>
<td>190</td>
</tr>
<tr>
<td>Amplitude Balance (dB)</td>
<td>824 to 894</td>
<td>–1.0</td>
<td></td>
<td>1.0</td>
</tr>
<tr>
<td>Insertion Loss (dB)</td>
<td>824 to 894</td>
<td></td>
<td></td>
<td>1.4</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**

![Insertion Loss Graph]

**AMPLITUDE BALANCE**

![Amplitude Balance Graph]

**RETURN LOSS**

![Return Loss Graph]

**PHASE BALANCE**

![Phase Balance Graph]

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RECOMMENDED REFLOW PROFILE

<table>
<thead>
<tr>
<th>Preheating</th>
<th>Soldering</th>
<th>Peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temp.</td>
<td>Time</td>
<td>Temp.</td>
</tr>
<tr>
<td>T1</td>
<td>T2</td>
<td>T3</td>
</tr>
<tr>
<td>150°C</td>
<td>200°C</td>
<td>60 to 120 sec</td>
</tr>
</tbody>
</table>

* t3 : Time within 5°C of actual peak temperature
The maximum number of reflow is 3.
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.

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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