Multilayer Low Pass Filter
For 470-787MHz

DEA160787LT-5032A1

1.6x0.8mm [EIA 0603]*

* Dimensions Code JIS[EIA]
Multilayer Low Pass Filter
For 470-787MHz

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SHAPES AND DIMENSIONS

[Top view]

[Bottom view]

Terminal functions

1. IN
2. GND
3. OUT
4. GND
5. N.C
6. GND

Dimensions in mm

RECOMMENDED LAND PATTERN

EVALUATION BOARD

Line width to be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

Independent Research and Development of TDK

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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>Insertion Loss (dB)</td>
<td>470 to 787</td>
<td>—</td>
<td>0.46</td>
<td>0.65</td>
</tr>
<tr>
<td>Return Loss (dB)</td>
<td>470 to 787</td>
<td>—</td>
<td>0.71</td>
<td>(–40 to +85°C)</td>
</tr>
<tr>
<td></td>
<td>1429 to 1501</td>
<td>26</td>
<td>39.7</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1565 to 1570</td>
<td>30</td>
<td>46.5</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1570 to 1580</td>
<td>35</td>
<td>46.8</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1580 to 1607</td>
<td>30</td>
<td>46.9</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td>1920 to 1980</td>
<td>20</td>
<td>32.4</td>
<td>—</td>
</tr>
<tr>
<td>Attenuation (dB)</td>
<td>470 to 787</td>
<td>—</td>
<td>—</td>
<td>3</td>
</tr>
<tr>
<td>Characteristic Impedance (Ω)</td>
<td>50 (Nominal)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

• Tș: +25±5°C

### 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>

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

INSERTION LOSS

ATTENUATION

RETURN LOSS

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RECOMMENDED REFLOW PROFILE

<table>
<thead>
<tr>
<th>Preheating</th>
<th>Soldering Critical zone (T3 to T4)</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>217°C</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.

⚠️ 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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