SAW Filter 1747.50MHz

Model: TA0762A
Part No: MP01784

Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: +20dBm
2. DC voltage: 0V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc (MHz)</td>
<td>-</td>
<td>1747.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1710 ~ 1785MHz) IL (dB)</td>
<td>-</td>
<td>2.6</td>
<td>4.0</td>
</tr>
<tr>
<td>Amplitude ripple (1710 ~ 1785MHz) (dB)</td>
<td>-</td>
<td>1.6</td>
<td>2.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 1670MHz (dB)</td>
<td>15</td>
<td>23</td>
<td>-</td>
</tr>
<tr>
<td>1670 ~ 1690MHz (dB)</td>
<td>6</td>
<td>23.9</td>
<td>-</td>
</tr>
<tr>
<td>1805 ~ 1880MHz (dB)</td>
<td>6</td>
<td>24</td>
<td>-</td>
</tr>
<tr>
<td>1880 ~ 4500MHz (dB)</td>
<td>15</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>4500 ~ 5000MHz (dB)</td>
<td>10</td>
<td>14</td>
<td>-</td>
</tr>
<tr>
<td>Input / Output VSWR (1710 ~ 1785MHz)</td>
<td>-</td>
<td>1.8</td>
<td>2.5</td>
</tr>
<tr>
<td>Source impedance Zs (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]
SAW Filter 1747.50MHz  
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D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. Transfer Function

![Graph of Transfer Function]

![Graph of Frequency Characteristics]

SAW Filter 1747.50MHz
Part No: MP01784
Rev No: 1
2. Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Temp (Deg C) vs Time (Sec) graph]

- **Temp (Deg C):** 20 to 280
- **Time (Sec):** 0 to 360

**Graph Description:**
- The graph illustrates the recommended reflow profile for the SAW Filter 1747.50MHz Model: TA0762A Part No: MP01784 Rev No: 1.