SAW Filter 1268.520MHz
Part No: MP08172

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance: \(Z_S = 50\Omega\)
2. Terminating load impedance: \(Z_L = 50\Omega\)

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1268.52</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1258.29 ~ 1278.75MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>4.5</td>
</tr>
<tr>
<td>Amplitude ripple (1258.29 ~ 1278.75MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>2.4</td>
</tr>
<tr>
<td>Bandwidth @2dB</td>
<td>MHz</td>
<td>20.46</td>
<td>30.8</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1258.29 ~ 1278.75MHz)</td>
<td>-</td>
<td>-</td>
<td>1.7</td>
<td>2.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1227.52MHz</td>
<td>dB</td>
<td>25</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>1309.52MHz</td>
<td>dB</td>
<td>50</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>
SAW Filter 1268.520MHz
Model: TA1835A
Part No: MP08172
Rev No: 1

C. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]

D. OUTLINE DRAWING:

![Outline Drawing]

E. PCB FOOTPRINT:

![PCB Footprint Diagram]
F. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics]

- Center: 1268.520 GHz
- Span: 100 MHz

---

TA1835A v1
Reflection Functions:

**S11**

![Graph of S11](image1)

**S22**

![Graph of S22](image2)
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.