SAW Filter 2332.50MHz
Model: TA1657A
Part No: MP07698
Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

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

B. ELECTRICAL CHARACTERISTICS:

1. AEC-Q200
2. Terminating source impedance: \( Z_S = 50\Omega \) (Single)
3. Terminating load impedance: \( Z_L = 50\Omega \) (Single)

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.(2)</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency ( F_c ) MHz</td>
<td>MHz</td>
<td></td>
<td>2332.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. Insertion Loss (2320 ~ 2345MHz) IL dB</td>
<td>dB</td>
<td>0.6</td>
<td>1.2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pass band ripple (2320 ~ 2345MHz) dB</td>
<td>dB</td>
<td>0.25</td>
<td>0.8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude ripple (2320 ~ 2332.5MHz) dB</td>
<td>dB</td>
<td>0.1</td>
<td>0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amplitude ripple (2332.5 ~ 2345MHz) dB</td>
<td>dB</td>
<td>0.1</td>
<td>0.6</td>
<td></td>
<td></td>
</tr>
<tr>
<td>S11 &amp; S22 VSWR</td>
<td></td>
<td>1.2</td>
<td>2.0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attenuation D.C ~ 2175MHz dB</td>
<td>dB</td>
<td>23</td>
<td>26</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2175 ~ 2227MHz dB</td>
<td>dB</td>
<td>20</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2400 ~ 2570MHz dB</td>
<td>dB</td>
<td>20</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2570 ~ 4200MHz dB</td>
<td>dB</td>
<td>20</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Package size mm</td>
<td>SMD 3.0x3.0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temp Coefficient ppm/K</td>
<td></td>
<td>-36</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes:
1. In production, devices will be tested at room temperature to a guardbanded specification to ensure electrical compliance over temperature.
2. Typical values are based on average measurements at room temperature.
C. FREQUENCY CHARACTERISTICS:

1. S21 Response: (span 600MHz)

![S21 Response Graph](image1)

2. Pass band Response: (span 150MHz)

![Pass band Response Graph](image2)
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3. S11 & S22 VSWR Response: (span 120MHz)

4. Wide band Response: (span 4.2GHz)
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D. MEASUREMENT CIRCUIT:

**TESTING ENVIRONMENT**

E. OUTLINE DRAWING:

B: Input  
E: Output  
A, C, D, F: Ground  
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

![Reel Dimension Diagram]

2. Tape Dimension

![Tape Dimension Diagram]
H. RECOMMENDED REFLOW PROFILE: