SAW Filter 1860.0MHz  
Model: TA1540A  
Part No: MP07569  
Rev No: 1

A. MAXIMUM RATING:  
Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: -20°C to +70°C  
4. Storage Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

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

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency ( F_c )</td>
<td>MHz</td>
<td>-</td>
<td>1860</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1842.5 ~ 1877.5MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.9</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1842.5 ~ 1877.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>2.2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1842.5 ~ 1877.5MHz)</td>
<td></td>
<td>-</td>
<td>1.4</td>
<td>2.2</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1605 ~ 1635MHz</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1808MHz</td>
<td>dB</td>
<td>15</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1950 ~ 2500MHz</td>
<td>dB</td>
<td>40</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

HP Network analyzer

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

[Graphs showing frequency characteristics for different frequency bands with specific points indicating frequency and gain values.]
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Reflection Functions:

S11

S22
G. PACKING:

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

2. Tape Dimension
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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.