SAW Filter 1840.0MHz  
Model: TA1612A  
Part No: MP05713  
Rev No: 1

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:

<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>1840</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1830~1850 MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.8</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple (1830 ~ 1850MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.8</td>
</tr>
<tr>
<td>VSWR (1830 ~ 1850MHz)</td>
<td>-</td>
<td>-</td>
<td>1.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 1750MHz</td>
<td>dB</td>
<td>28</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>1950 ~ 2500MHz</td>
<td>dB</td>
<td>34</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td>ppm/k</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω  2  SAW Filter  5  50Ω  
1, 3, 4, 6
```
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D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph 1](image1)

![Graph 2](image2)
SAW Filter 1840.0MHz
Part No: MP05713
Model: TA1612A
Rev No: 1

Reflection Functions

S11

S22
G. PACKING:

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile](image-url)