SAW Filter 653.0MHz  
Model: TA1358A  
Part No: MP06624  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 5V
3. Operating Temperature: -30°C to 60°C
4. Storage Temperature: -40°C to +85°C

B. 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>653</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (641 ~ 665MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.1</td>
<td>1.7</td>
</tr>
<tr>
<td>Insertion loss, IL (641 ~ 665MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.2</td>
<td>3.0</td>
</tr>
<tr>
<td>Group Delay, GD (641 ~ 665MHz)</td>
<td>ns</td>
<td>-</td>
<td>52</td>
<td>200</td>
</tr>
<tr>
<td>Bandwidth @ -3dB</td>
<td></td>
<td>24</td>
<td>42</td>
<td>-</td>
</tr>
</tbody>
</table>

Attenuation (reference from 0dB)

<table>
<thead>
<tr>
<th></th>
<th>dB</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>0.3 ~ 578MHz</td>
<td>33</td>
<td>38</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>578 ~ 615MHz</td>
<td>10</td>
<td>17</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>690 ~ 740MHz</td>
<td>10</td>
<td>19</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>740 ~ 747MHz</td>
<td>30</td>
<td>38</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>747 ~ 973MHz</td>
<td>37</td>
<td>42</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>973 ~ 1113MHz</td>
<td>33</td>
<td>38</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Source impedance Z_s  
Load impedance Z_L

Note: No matching network required for operation at 50Ω
C. FREQUENCY CHARACTERISTICS:

1. Wideband

2. Passband
D. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω  →           ←  50Ω
         SAW Filter
         A, C, D, F
```

E. OUTLINE DRAWING:

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

1. Reel Dimension

2. Tape Dimension

Direction of Feed
SAW Filter 653.0MHz
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G. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile with temperature on the y-axis (in degrees Celsius) and time on the x-axis (in seconds). The graph includes a curve that rises steeply, peaks, and then falls gradually.]