SAW Filter 607.0MHz  
Model: TA1446A  
Part No: MP05504  
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 +60°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>607</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL (598 ~ 616MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.3</td>
<td>3</td>
</tr>
<tr>
<td>Amplitude ripple (598 ~ 616MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>1.7</td>
</tr>
<tr>
<td>Group Delay, GD (598 ~ 616MHz)</td>
<td>ns</td>
<td>-</td>
<td>48</td>
<td>200</td>
</tr>
<tr>
<td>Bandwidth @ -3dB</td>
<td></td>
<td>18</td>
<td>27</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (reference from 0dB)</td>
<td>dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3 ~ 504MHz</td>
<td></td>
<td>35</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>504 ~ 544MHz</td>
<td></td>
<td>10</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>640 ~ 670MHz</td>
<td></td>
<td>10</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>670 ~ 860MHz</td>
<td></td>
<td>40</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 1030MHz</td>
<td></td>
<td>50</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Zs</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]
D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. Wideband response:

2. Narrowband response:
G. PACKING:

1. Reel Dimension

2. Tape Dimension
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H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile.](image)