SAW Filter 169.43750MHz  
Model: TB1064A  
Part No: MP05369  
Rev No: 1

A. MAXIMUM RATING:  
Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm  
2. DC voltage: 5 V  
3. Operating Temperature: -20°C to +70°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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>169.4375</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at center frequency ILc</td>
<td>dB</td>
<td>-</td>
<td>3</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Ripple (169.43375 ~ 169.44125MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.1</td>
<td>±1</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (reference level from ILc)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -4 to Fc -0.92MHz</td>
<td>dB</td>
<td>40</td>
<td>60</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc -0.92 to Fc -0.31MHz</td>
<td>dB</td>
<td>30</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc +0.31 to Fc +0.92MHz</td>
<td>dB</td>
<td>30</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Fc +0.92 to Fc +4MHz</td>
<td>dB</td>
<td>40</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency TCf</td>
<td></td>
<td></td>
<td>-0.033 ppm/C^2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: Considering -12kHz frequency shift from -20°C to +70°C
C. OUTLINE DRAWING:

![Outline Drawing](image)

9: Input  
4: Output  
10: Balance input or input ground  
5: Balance output or output ground  
1, 2, 3, 6, 7, 8: To be grounded

D. MEASUREMENT CIRCUIT:

50Ω Test circuit (single-ended / single-ended)

HP Network analyzer

![Measurement Circuit](image)
E. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Diagram]

1. **Center**: 169.43750 MHz
2. **IPBW**: 2 kHz
3. **Span**: 200 kHz

- 169.43750 MHz: -2.935 dB
- 169.44550 MHz: -5.941 dB
- 169.43750 MHz: -2.940 dB

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F. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
SAW Filter 169.43750MHz
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G. 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.