SAW Filter 974.0MHz  
Model: TA0729A
Part No: MP01622  
Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (differential): $Z_s = 150\Omega // 39nH$
2. Terminating load impedance (differential): $Z_l = 150\Omega // 39nH$

<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>974</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -2 dB</td>
<td>MHz</td>
<td>40</td>
<td>60</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss in 954 ~ 994MHz</td>
<td>dB</td>
<td>-</td>
<td>3.6</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (954 ~ 994MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.9</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>Phase error (954 ~ 994 MHz) (3)</td>
<td>deg</td>
<td>-</td>
<td>3.2</td>
<td>5.5</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (954 ~ 994 MHz)</td>
<td>-</td>
<td>2</td>
<td>2.3</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>CMDR (954 ~ 994 MHz)</td>
<td>dB</td>
<td>22</td>
<td>27</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>50 ~ 891.94MHz</td>
<td>dB</td>
<td>40</td>
<td>44</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1056.06 ~ 1300MHz</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1300 ~ 2000MHz</td>
<td>dB</td>
<td>44</td>
<td>55</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2000 ~ 6000MHz</td>
<td>dB</td>
<td>33</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:
1. The amplitude reference is insertion loss at $F_c$.
2. The amplitude ripple is defined as the max. level – min. level over any 30 MHz block of the given bandwidth.
3. The phase error is measured over any 30 MHz block of the given bandwidth.
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph](image)

- Center 974 MHz
- IFBW 3 kHz
- Span 100 MHz
- Span 300 MHz

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Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

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