SAW Filter 1199.0MHz
Model: TA1104A
Part No: MP04206
Rev No: 1

A. MAXIMUM RATING:

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. 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>1199</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 1145 ~ 1253MHz IL</td>
<td>dB</td>
<td>-</td>
<td>4.6</td>
<td>5.5</td>
</tr>
<tr>
<td>Pass Band Ripple 1145 ~ 1253MHz</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>3.5</td>
</tr>
<tr>
<td>Group Delay Variation 1145 ~ 1253MHz</td>
<td>ns</td>
<td>-</td>
<td>15</td>
<td>30</td>
</tr>
<tr>
<td>Return loss 1145 ~ 1253MHz</td>
<td>dB</td>
<td>6</td>
<td>7.5</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>18</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>300 ~ 1000MHz</td>
<td>dB</td>
<td>9</td>
<td>16</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

![Circuit Diagram]

50Ω → B → SAW Filter → E → 50Ω
D. FREQUENCY CHARACTERISTICS:

Transfer Function

[Graph showing frequency characteristics with frequency and decibel values marked on the graph.]

- Center 1.399 GHz
- IFBW 70 kHz
- Span 250 MHz
- Start 10 MHz
- Stop 2.6 GHz

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E. OUTLINE DRAWING:

[Diagram showing outline drawing of the SAW filter]

F. PCB FOOTPRINT:

[Diagram showing PCB footprint of the SAW filter]

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

1. Reel Dimension

![Reel Dimension Diagram]

2. Tape Dimension

![Tape Dimension Diagram]