SAW Filter 423.0MHz  
Part No: MP03991  
Model: TA1105A  
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. 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>423</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (422 ~ 424MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude Ripple (422 ~ 424MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.2</td>
<td>1.2</td>
</tr>
<tr>
<td>VSWR (422 ~ 424MHz)</td>
<td>-</td>
<td>-</td>
<td>1.3</td>
<td>2.2</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 380MHz</td>
<td>-</td>
<td>55</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>380 ~ 405MHz</td>
<td>-</td>
<td>45</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>440 ~ 450MHz</td>
<td>-</td>
<td>30</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>450 ~ 700MHz</td>
<td>-</td>
<td>50</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>700 ~ 1000MHz</td>
<td>-</td>
<td>42</td>
<td>53</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]

TA1105A v1
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D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Diagram](image)

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**Part No: MP03991**
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![Graph 1]

![Graph 2]
SAW Filter 423.0MHz
Part No: MP03991
Model: TA1105A
Rev No: 1
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Diagram of reflow profile with temperature in degrees Celsius on the Y-axis and time in seconds on the X-axis. The profile shows a rise to a peak around 220°C and a gradual cool down.]