A. **MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
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>400</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (398 ~ 402MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.0</td>
<td>4.5</td>
</tr>
<tr>
<td>Amplitude ripple (398 ~ 402MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>2.0</td>
</tr>
<tr>
<td>Return loss (399.5 ~ 400.5MHz)</td>
<td>-</td>
<td>9</td>
<td>12</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 370MHz</td>
<td>dB</td>
<td>45</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>430 ~ 1000MHz</td>
<td>dB</td>
<td>40</td>
<td>44</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td>ppm/k</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>
C. MEASUREMENT CIRCUIT:

HP Network analyzer

\[\begin{array}{c}
\text{50Ω} & 1 & \text{SAW Filter} & 5 & \text{50Ω} \\
2, 3, 4, 6, 7, 8
\end{array}\]

D. OUTLINE DRAWING:

1: Input
5: Output
2, 3, 4, 6, 7, 8: Ground
Unit: mm
E. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics for SAW Filter 400.0MHz Model: TA1595A Part No: MP05420 Rev. No: 3]
Reflection Functions

S11

S22

SAW Filter 400.0MHz
Part No: MP05420
Model: TA1595A
Rev. No: 3
F. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

Section A-A

Direction of Feed
G. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

Time (Sec) vs. Temp (Deg C) graph showing a recommended reflow profile for SAW Filter 400.0MHz Model: TA1595A Part No: MP05420 Rev. No: 3.