SAW Filter: 781.50MHz  
Model: TA1609A  
Part No: MP05604  
Rev No: 1

A. MAXIMUM RATING:

Electronic Sensitive Device (ESD)

1. Input Power Level: +25dBm
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>781.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (777 ~ 787MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>3.4</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>MHz</td>
<td>10</td>
<td>29</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (777 ~ 787MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>28</td>
<td>46</td>
<td>-</td>
</tr>
<tr>
<td>300 ~ 700MHz</td>
<td>dB</td>
<td>10</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>728 ~ 757MHz</td>
<td>dB</td>
<td>28</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 1050MHz</td>
<td>dB</td>
<td>28</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

![Circuit Diagram]
**SAW Filter: 781.50MHz**  
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**D. OUTLINE DRAWING:**

1, 3: Input (Balanced)  
6: Output (Unbalanced)  
2, 4, 5, 7, 8: Ground  
Unit: mm

**E. PCB FOOTPRINT:**

[Diagram of PCB footprint with dimensions and labels]
F. FREQUENCY CHARACTERISTICS:

[Diagram of frequency characteristics with specific values and labels]
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION : mm

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature and time values.](image-url)