A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 5dBm
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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>2345</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (2300 ~ 2390MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.8</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (2300 ~ 2390MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (2300 ~ 2390MHz)</td>
<td></td>
<td>-</td>
<td>1.8</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>Group delay ripple (2300 ~ 2390MHz)</td>
<td>ns</td>
<td>-</td>
<td>8</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Relative Attenuation (relative to 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 2200MHz</td>
<td>dB</td>
<td>23</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2500 ~ 4000MHz</td>
<td>dB</td>
<td>25</td>
<td>34</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω  2  50Ω
  1, 3, 4, 6

SAW Filter

TA0581B v1
SAW Filter 2345.0MHz  
Model: TA0581B  
Part No: MP07225  
Rev No: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics](image)
1. Reflections Functions

S11 VSWR

S22 VSWR
2. Group Delay

![Graph showing group delay characteristics of the SAW Filter 2345.0MHz Model: TA0581B Part No: MP07225 Rev No: 1]
G. PACKING:

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

2. Tape Dimension

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TA0581B v1
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 250 ± 10°C peak (max. 10 sec).
4. Time: 2 times.