SAW Filter 423.0MHz
Part No: MP07251
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
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>Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 380MHz</td>
<td>dB</td>
<td>55</td>
<td>70</td>
<td>-</td>
</tr>
<tr>
<td>380 ~ 405MHz</td>
<td>dB</td>
<td>45</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>440 ~ 450MHz</td>
<td>dB</td>
<td>30</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>450 ~ 700MHz</td>
<td>dB</td>
<td>50</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>700 ~ 1000MHz</td>
<td>dB</td>
<td>42</td>
<td>53</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram of measurement circuit]

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Model: TA1562A
Part No: MP07251
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**SAW Filter 423.0MHz**

**Model: TA1562A**

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**D. OUTLINE DRAWING:**

![Outline Drawing]

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

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**E. PCB FOOTPRINT:**

![PCB Footprint]
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F. FREQUENCY CHARACTERISTICS:

![Graph showing frequency characteristics of the SAW Filter](image)

- Freq: 421.000000 MHz, Mag: -1.5592 dB
- Freq: 421.000000 MHz, Mag: -1.5959 dB
- Freq: 424.000000 MHz, Mag: -1.4453 dB

![Another graph showing frequency characteristics of the SAW Filter](image)

- Freq: 700.000000 MHz, Mag: -62.646 dB
- Freq: 400.000000 MHz, Mag: -74.371 dB
- Freq: 250.000000 MHz, Mag: -62.717 dB
- Freq: 200.000000 MHz, Mag: -66.875 dB
- Freq: 100.000000 MHz, Mag: -74.996 dB
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

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SECTION A-A

SECTION B-B

DIMENSION: mm
Direction of Feed
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° peak (max. 10 sec).
4. Time: 2 times.