SAW Filter 830.05MHz
Part No: MP03055

A. MAXIMUM RATING:

1. Input Power Level: 13dBm
2. DC voltage: 5V
3. Operating Temperature: -20° C to +70° C
4. Storage Temperature: -30° 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>830.05</td>
<td>-</td>
</tr>
<tr>
<td>1.5 -dB Bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>Fo±4.5</td>
<td>-</td>
</tr>
<tr>
<td>Operational Bandwidth</td>
<td>MHz</td>
<td>825.5</td>
<td>-</td>
<td>834.6</td>
</tr>
<tr>
<td>Insertion Loss at Fc</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>4.5</td>
</tr>
<tr>
<td>Amplitude Variation (825.5 ~ 834.6MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>1.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>35</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>0 ~ 808MHz</td>
<td>dB</td>
<td>10</td>
<td>32</td>
<td>-</td>
</tr>
<tr>
<td>808 ~ 816MHz</td>
<td>dB</td>
<td>10</td>
<td>24</td>
<td>-</td>
</tr>
<tr>
<td>842 ~ 850MHz</td>
<td>dB</td>
<td>30</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>850 ~ 858MHz</td>
<td>dB</td>
<td>34</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>858 ~ 2000MHz</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>2.5</td>
</tr>
<tr>
<td>Input/Output VSWR (825.5 ~ 834.6MHz)</td>
<td>-</td>
<td>1.7</td>
<td>2.5</td>
<td></td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

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TA0511A v1
D. OUTLINE DRAWING:

2: Input
6: Output
1, 3, 4, 5, 7, 8: Ground
Unit: mm

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

Transfer function

[Diagram of frequency characteristics]
SAW Filter 830.05MHz
Part No: MP03055
Rev No: 1

Reflections Functions

S11

S22
G. PACKING:

1. REEL DIMENSION

![Diagram of reel dimension]

2. TAPE DIMENSION

![Diagram of tape dimension]

Direction of Feed