SAW Filter 868.3MHz  Model: TA0257A
Part No: MA05578  Rev No: 5

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -45°C to +90°C
4. Storage Temperature: -45°C to +90°C

B. ELECTRICAL CHARACTERISTICS:

Reference temperature: 25°C

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc (MHz)</td>
<td>-</td>
<td>868.3</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Minimum IL (868 ~ 868.78MHz) (dB) IL min</td>
<td>-</td>
<td>2.7</td>
<td>4.2</td>
<td></td>
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<tr>
<td>Pass band (relative to IL min)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>868 ~ 868.78MHz (dB)</td>
<td>-</td>
<td>1.0</td>
<td>3.0</td>
<td>1</td>
</tr>
<tr>
<td>867.9 ~ 868.88MHz (dB)</td>
<td>-</td>
<td>1.5</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>Pass bandwidth (relative to IL min) BW3 (kHz)</td>
<td>-</td>
<td>1500</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Attenuation: (relative to IL min) (dB)</td>
<td></td>
<td></td>
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<tr>
<td>10 ~ 700MHz (dB)</td>
<td>50</td>
<td>55</td>
<td>-</td>
<td></td>
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<tr>
<td>700 ~ 830MHz (dB)</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>830 ~ 850MHz (dB)</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>850 ~ 865.02MHz (dB)</td>
<td>25</td>
<td>28</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>871 ~ 874.5MHz (dB)</td>
<td>15</td>
<td>20</td>
<td>-</td>
<td></td>
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<tr>
<td>874.5 ~ 883MHz (dB)</td>
<td>22</td>
<td>26</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>883 ~ 900MHz (dB)</td>
<td>30</td>
<td>35</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>900 ~ 1000MHz (dB)</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Impedance at Fc: Input Z&lt;sub&gt;IN&lt;/sub&gt; = R&lt;sub&gt;IN&lt;/sub&gt; // C&lt;sub&gt;IN&lt;/sub&gt;</td>
<td>117Ω // 3.7pF</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Output Z&lt;sub&gt;OUT&lt;/sub&gt; = R&lt;sub&gt;OUT&lt;/sub&gt; // C&lt;sub&gt;OUT&lt;/sub&gt;</td>
<td>117Ω // 3.7pF</td>
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</tr>
</tbody>
</table>

Note: The standard definitions is in JIS C 6703
C. FREQUENCY CHARACTERISTICS:

The response included the loss of matching circuit.
D. MEASUREMENT CIRCUIT:

HP Network analyzer

3.3P 15nH 50Ω

SAW Filter 50Ω

1 2, 3, 4, 6, 7, 8

5 3.3P 15nH

E. OUTLINE DRAWING:

#1: Input or Input Ground
#2: Input Ground or Input
#3: Output
#4: Output Ground
#5: Case Ground
#6: Ground
□: Date code
Unit: mm
F. PACKING:

1. REEL DIMENSION

![Reel Dimension Diagram]

2. TAPE DIMENSION

![Tape Dimension Diagram]