SAW Filter 647.0MHz
Part No: MP02295

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +75°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</td>
<td>MHz</td>
<td>-</td>
<td>647</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (638~656 MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.5</td>
<td>4.5</td>
</tr>
<tr>
<td>Amplitude Ripple (variation over 6MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Variation (638~656 MHz)</td>
<td>ns</td>
<td>-</td>
<td>26</td>
<td>45</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0 ~ 560 MHz</td>
<td>dB</td>
<td>30</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>560 ~ 590 MHz</td>
<td>dB</td>
<td>45</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>720 ~ 1000 MHz</td>
<td>dB</td>
<td>30</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 1500 MHz</td>
<td>dB</td>
<td>30</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-35</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

[Diagram of measurement circuit]
D. OUTLINE DRAWING:

2 : Input  
8: Output  
1,3,4,5,7,8: Ground  
△ : Year Code  
□ : Date Code (W01->A, W02->B, ..., W52->z)

△ Product Year Code

<table>
<thead>
<tr>
<th>Year</th>
<th>2007</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
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<tbody>
<tr>
<td>Product Code</td>
<td>A</td>
<td>a</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics](image)

- Start: 350 MHz
- Stop: 3.5 GHz

**SAW Filter 647.0MHz**

**Model:** TA1007A

**Part No:** MP02295

**REV NO.: 1**
SAW Filter 647.0MHz
Model: TA1007A
Part No: MP02295

REV NO.: 1

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TA1007A v1
SAW Filter 647.0MHz

Model: TA1007A

Part No: MP02295

REV NO.: 1
SAW Filter 647.0MHz
Model: TA1007A
Part No: MP02295

G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

**SAW Filter 647.0MHz**  
**Model:** TA1007A  
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**REV NO.:** 1