SAW Filter 455MHz
Part No: MP02506

Model: TA1087A
REV NO.: 1

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC Voltage: 3 V
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>Type.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>455</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (448~462 MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.1</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude Ripple (448~462 MHz) dB</td>
<td>-</td>
<td>0.8</td>
<td>1.6</td>
<td></td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc-445 ~ Fc-44 MHz dB</td>
<td></td>
<td>45</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>Fc-42.8 MHz dB</td>
<td></td>
<td>45</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Fc+45 ~ Fc+245 MHz dB</td>
<td></td>
<td>45</td>
<td>48</td>
<td>-</td>
</tr>
<tr>
<td>Fc+245 ~ Fc+545 MHz dB</td>
<td></td>
<td>35</td>
<td>40</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω   2   6   50Ω
  |     |     |
  |     |     |
  |     |     |
1, 3, 4, 5, 7, 8
D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:
SAW Filter 455MHz
Model: TA1087A
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**Graph Details:**

- **Frequency:** 1 MHz - 1 GHz
- **Y-Axis:** dB
- **Points:**
  1. 411.0000000 MHz - 51.464 dB
  2. 412.0000000 MHz - 51.002 dB
  3. 500.0000000 MHz - 59.923 dB
  4. 700.0000000 MHz - 68.777 dB

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**RSA Filter 455MHz**

**Model:** TA1087A

**Part No:** MP02506

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**Graph Notes:**

- **Frequency Range:** 1 MHz to 1 GHz
- **Y-Axis:** dB
- **Points Highlighted:**
  1. 411 MHz at 51.464 dB
  2. 412 MHz at 51.002 dB
  3. 500 MHz at 59.923 dB
  4. 700 MHz at 68.777 dB
G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature on the y-axis and time on the x-axis. The profile peaks around 220°C at 120 seconds.]