SAW Filter 404.0MHz  
Model: TA1347A
Part No: MP05063  
Rev No: 2

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Sym</th>
<th>Notes</th>
<th>Minimum</th>
<th>Typical</th>
<th>Maximum</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency at 25°C</td>
<td>$f_c$</td>
<td>1, 2, 3</td>
<td>404</td>
<td>MHz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>$IL_{MIN}$</td>
<td>1, 3</td>
<td>2.1</td>
<td>2.3</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>Passband Ripple, 402-405 MHz</td>
<td>1, 3</td>
<td></td>
<td>0.6</td>
<td>0.8</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>$BW_3$</td>
<td>1, 3</td>
<td>5.0</td>
<td>6.0</td>
<td>MHz</td>
<td></td>
</tr>
<tr>
<td>Attenuation relative to $IL_{MIN}$</td>
<td>1, 3</td>
<td></td>
<td>30</td>
<td>35</td>
<td>dB</td>
<td></td>
</tr>
<tr>
<td>398.5 MHz</td>
<td></td>
<td></td>
<td>30</td>
<td>45</td>
<td></td>
<td></td>
</tr>
<tr>
<td>408.5 MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>393.5 MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>48</td>
<td></td>
<td></td>
</tr>
<tr>
<td>423.5 MHz</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freq. Temp. Coefficient</td>
<td>FTC</td>
<td></td>
<td>-37</td>
<td>ppm/k</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Frequency Aging, First Year</td>
<td>[IA]</td>
<td>5</td>
<td>±10</td>
<td>ppm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single-ended Input/Output Impedance Match</td>
<td>1</td>
<td></td>
<td>50</td>
<td>ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Differential Input/Output Impedance Match</td>
<td>1</td>
<td></td>
<td>150</td>
<td>ohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lot Symbolization (Y=year WW=week S=shift)</td>
<td>A16 // YWWS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Reel Quantity</td>
<td>Reel Size 7 Inch</td>
<td>9</td>
<td>500 Pieces/Reel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reel Size 13 Inch</td>
<td></td>
<td>3000 Pieces/Reel</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
C. OUTLINE DRAWING:

![Outline Drawing]

Unit: mm

D. MEASUREMENT CIRCUIT:

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HP Network analyzer

50Ω 2 SAW Filter 6 50Ω

1,3,4,5,7,8
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E. PCB FOOTPRINT:

![Pcb Footprint]
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

S21

- F. FREQUENCY CHARACTERISTICS:
  - S21 Log Mag 10.000dB/ Ref -40.000dB [F2]
  - [Graph showing frequency response]

- F. FREQUENCY CHARACTERISTICS:
  - S21 Log Mag 10.000dB/ Ref -40.000dB [F2]
  - [Graph showing frequency response]

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**SAW Filter 404.0MHz**
**Model: TA1347A**
**Part No: MP05063**
**Rev No: 2**

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**Golledge Electronics Ltd**
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com
G. 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°C peak (max. 10sec).
4. Time: 2 times
H. PACKING:

1. Reel Dimension

2. Tape Dimension

SECTION A-A