SAW Filter 1575.420MHz
Part No: MP03890
Model: TA0796A
Rev No: 6

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -55°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating source impedance (single-ended): $Z_s = 50\Omega$
2. Terminating load impedance (differential): $Z_L = 100\Omega$

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1575.42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Max. Insertion Loss (1574.42 ~ 1576.42MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.7</td>
<td>2.3</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1574.42 ~ 1576.42MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1574.42~1576.42 MHz)</td>
<td></td>
<td>-</td>
<td>1.3</td>
<td>1.8</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 ~ 960MHz</td>
<td>dB</td>
<td>40</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>960 ~ 1425MHz</td>
<td>dB</td>
<td>35</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1425 ~ 1475MHz</td>
<td>dB</td>
<td>30</td>
<td>51</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1475 ~ 1515MHz</td>
<td>dB</td>
<td>20</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1515 ~ 1525MHz</td>
<td>dB</td>
<td>17</td>
<td>30</td>
<td>-</td>
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<tr>
<td>1625 ~ 1635MHz</td>
<td>dB</td>
<td>12</td>
<td>22.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1635 ~ 1675MHz</td>
<td>dB</td>
<td>20</td>
<td>25</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1675 ~ 1750MHz</td>
<td>dB</td>
<td>30</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1750 ~ 1805MHz</td>
<td>dB</td>
<td>35</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1805 ~ 1980MHz</td>
<td>dB</td>
<td>40</td>
<td>47</td>
<td>-</td>
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<tr>
<td>1980 ~ 2400MHz</td>
<td>dB</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td>-</td>
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<tr>
<td>2400 ~ 3155MHz</td>
<td>dB</td>
<td>40</td>
<td>52</td>
<td>-</td>
<td>-</td>
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<tr>
<td>3155 ~ 6000MHz</td>
<td>dB</td>
<td>35</td>
<td>52</td>
<td>-</td>
<td>-</td>
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</tbody>
</table>
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C. OUTLINE DRAWING:

![Outline Drawing]

- C: Unbalance Input
- A, E: Balance Output
- B, D: Ground

D. MEASUREMENT CIRCUIT:

![Measurement Circuit]

E. PCB FOOTPRINT:

![PCB Footprint]

- : Land Pattern
- Unit: mm
F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with various measurements and labels.]

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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
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Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- Time (Sec) range from 0 to 360
- Temp (Deg C) range from 20 to 280

The graph represents the recommended reflow profile for the SAW Filter 1575.420MHz Model: TA0796A Part No: MP03890 Rev No: 6.