SAW Filter 1076.06MHz  
Part No: MP03097  
Model: TA0696A  
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential): \( Z_S = 150\Omega // 39nH \)
Terminating load impedance (differential): \( Z_L = 150\Omega // 39nH \)

<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>1076.06</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth at -2.7dB</td>
<td>MHz</td>
<td>40</td>
<td>47</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Min. Insertion Loss in 1056.06 ~ 1096.06MHz</td>
<td>dB</td>
<td>-</td>
<td>1.6</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1056.06MHz ~ 1096.06MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.7</td>
<td>-</td>
</tr>
<tr>
<td>Phase error (1056.06MHz ~ 1096.06MHz) (3)</td>
<td>deg</td>
<td>-</td>
<td>5</td>
<td>6.5</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (1056.06MHz ~ 1096.06MHz)</td>
<td></td>
<td>-</td>
<td>2.4</td>
<td>2.8</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (1)</td>
<td>dB</td>
<td>43</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>50 ~ 994MHz</td>
<td>dB</td>
<td>40</td>
<td>43</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1158.12 ~ 1850MHz</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1850 ~ 3000MHz</td>
<td>dB</td>
<td>30</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3000 ~ 6000MHz</td>
<td>dB</td>
<td>30</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:

The amplitude reference is insertion loss at Fc.

The amplitude ripple is defined as the max level - min level over any 30MHz block of the given bandwidth.

The phase error is measured over any 30MHz block of the given bandwidth.
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:
E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with specific points labeled.]

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Tel: +44 1460 256 100
Fax: +44 1460 256 101
www.golledge.com
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK
Reflection Functions

S11

S22
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7" = 1000; 13" = 3000)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile for the SAW Filter 1076.06MHz. The graph plots temperature (Deg C) against time (Sec). Temperatures range from 20 to 280 degrees Celsius, and times range from 0 to 360 seconds. The profile shows an initial rise, followed by a plateau, and then a gradual decrease.]