SAW Filter 1247.50MHz
Part No: MP08540

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: -55°C to +60°C
4. Storage Temperature: -55°C to +60°C

B. ELECTRICAL CHARACTERISTICS by 20°C:

<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 Fc</td>
<td>MHz</td>
<td>-</td>
<td>1247.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>5.0</td>
</tr>
<tr>
<td>Amplitude ripple (1238 ~ 1257MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.9</td>
<td>1.45</td>
</tr>
<tr>
<td>Group Delay Variation(1238 ~ 1257MHz)</td>
<td>ns</td>
<td>-</td>
<td>10.0</td>
<td>15.0</td>
</tr>
<tr>
<td>VSWR (1238 ~ 1257MHz)</td>
<td></td>
<td></td>
<td>1.45</td>
<td>2.2</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.000 ~ 1200.0MHz</td>
<td>dB</td>
<td>35</td>
<td>53</td>
<td>-</td>
</tr>
<tr>
<td>1295.0 ~ 2500.0MHz</td>
<td>dB</td>
<td>35</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Zs</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Deviation of centre and bounder frequencies in temperature range from -55°C to +60°C by TCD = -30ppm/grad (for reference).
C. MEASUREMENT CIRCUIT:

50Ω Test circuit (single-ended / single-ended)

![Circuit Diagram]

D. OUTLINE DRAWING:

![Outline Drawing]

E. PCB FOOTPRINT:

![PCB Footprint]
F. FREQUENCY CHARACTERISTICS:

Transfer functions
Refection functions

S11

TA0548A v1
Golledge Electronics Ltd
Eaglewood Park, ILMINSTER
Somerset, TA19 9DQ, UK

SAW Filter 1247.50MHz
Model: TA0548A
Part No: MP08540
Rev No: 1

GDT, ns
G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile for SAW Filter 1247.50MHz Model: TA0548A Part No: MP08540 Rev No: 1]