SAW Filter 60.0MHz

Model: TB0635A

Part No: MP03220

Rev No: 1

A. MAXIMUM RATING:

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

B. CHARACTERISTICS:

Ambient Temperature: 25°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>60.0</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>10.5</td>
<td>14.0</td>
</tr>
<tr>
<td>1dB Bandwidth</td>
<td>MHz</td>
<td>9.6</td>
<td>10.9</td>
<td>-</td>
</tr>
<tr>
<td>3dB Bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>11.6</td>
<td>-</td>
</tr>
<tr>
<td>25dB Bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>13.8</td>
<td>16.0</td>
</tr>
<tr>
<td>40dB Bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>14.7</td>
<td>18.0</td>
</tr>
<tr>
<td>Pass band Ripple Fc ± 4.8MHz</td>
<td>P-P dB</td>
<td>-</td>
<td>0.5</td>
<td>1.2</td>
</tr>
<tr>
<td>VSWR Fc ± 4.8MHz</td>
<td>P-P dB</td>
<td>-</td>
<td>4.0</td>
<td>5.0</td>
</tr>
<tr>
<td>Group delay Variation Fc ± 4.8MHz</td>
<td>P-P nsec</td>
<td>-</td>
<td>40</td>
<td>150</td>
</tr>
<tr>
<td>Triple Transit Suppression</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>Power Handling</td>
<td>dBm</td>
<td>10</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient</td>
<td>ppm/K</td>
<td>-</td>
<td>-94</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

![Graph of S21 Response]

Fig. 1. Horizontal: 10MHz/Div, Vertical: 10dB/Div

2. Passband Ripple & Group delay variation

![Graph of Passband Ripple & Group Delay Variation]

Fig. 2. Horizontal: 1.5MHz/Div, Vertical: 1dB/Div, Vertical: 100nS/Div
D. MEASUREMENT CIRCUIT:

Single ended input 50Ω to Single ended Output 50Ω

E. OUTLINE DRAWING:

K: RF Input
E: RF Output
A, B, C, D, F, G, H, I, J, L: Ground
Unit: mm
F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

![Diagram of reel dimensions]

2. TAPE DIMENSION

![Diagram of tape dimensions]

SECTION A-A
H. RECOMMENDED REFLOW PROFILE: