SAW Filter 60.0MHz
Part No: MP03387

A. MAXIMUM RATING:

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

B. ELECTRICAL 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>10.0</td>
<td>14.0</td>
</tr>
<tr>
<td>1dB Bandwidth</td>
<td>MHz</td>
<td>4.8</td>
<td>5.3</td>
<td>-</td>
</tr>
<tr>
<td>3dB Bandwidth</td>
<td>MHz</td>
<td>-</td>
<td>6.0</td>
<td>-</td>
</tr>
<tr>
<td>25dB Bandwidth</td>
<td>MHz</td>
<td>7.9</td>
<td>8.0</td>
<td></td>
</tr>
<tr>
<td>40dB Bandwidth</td>
<td>MHz</td>
<td>8.7</td>
<td>10.0</td>
<td></td>
</tr>
<tr>
<td>Pass band Ripple Fc ± 2.4MHz</td>
<td>P-P dB</td>
<td>-</td>
<td>0.6</td>
<td>1.2</td>
</tr>
<tr>
<td>VSWR Fc ± 2.4MHz</td>
<td>P-P dB</td>
<td></td>
<td>1.9</td>
<td>3.5</td>
</tr>
<tr>
<td>Group delay Variation Fc ± 2.4MHz</td>
<td>P-P nsec</td>
<td></td>
<td>120</td>
<td>200</td>
</tr>
<tr>
<td>Triple Transit Suppression</td>
<td>dB</td>
<td>40</td>
<td>43</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>-23</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

![S21 Response Graph]

Fig. 1. Horizontal: 5MHz/Div, Vertical: 10dB/Div

2. Group-Delay Ripple

![Group-Delay Ripple Graph]

Fig. 2. Horizontal: 0.8MHz/Div, Vertical: 100nec/Div
3. S11 Smith Chart (span: 50MHz)

4. S22 Smith Chart (span: 50MHz)
D. MEASUREMENT CIRCUIT:

Z_{IN} = Z_{OUT} = 50\,\Omega

L1 = L2 = 47\,nH, L3 = L4 = 56\,nH

E. OUTLINE DRAWING:

K: RF input
E: RF output
A, B, C, D, G, H, I, L, F J: To be Ground
Unit: mm
SAW Filter 60.0MHz  
Model: TB0634A  
Part No: MP03387  
Rev No: 1  

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing temperature over time for reflow profile](image)