SAW Filter 435.0MHz
Model: TB0902A
Part No: MP04368
Rev No: 1

A. MAXIMUM RATING:

1. Operating temperature range: -30°C to 85°C
2. Storage temperature range: -40°C to 85°C
3. Input Power Level: 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>435</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL</td>
<td>dB</td>
<td>-</td>
<td>13.2</td>
<td>16.0</td>
</tr>
<tr>
<td>-3dB bandwidth</td>
<td>MHz</td>
<td>70</td>
<td>74</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple Fc ± 30MHz</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>Attenuation: (Reference level from Min IL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 355MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>515MHz ~ 700MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-94</td>
<td>-</td>
</tr>
<tr>
<td>Source Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. Wide band Response: (span 600MHz)

![Wide band Response Graph]

Fig. 1: Horizontal: 60MHz/Div, Vertical: 10dB/Div

2. Pass band Response and Group Time Delay response:

![Pass band Response and Group Time Delay Graph]

Fig. 2: Horizontal: 12MHz/Div, Vertical: 1dB/Div, Vertical: 50ns/Div
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D. MATCHING CIRCUIT:

![Matching Circuit Diagram]

L1=22nH L2=22nH C1=4.7pF C2=2.7pF

E. OUTLINE DRAWING:

1: Input
2: Input ground
5: Output
6: Output ground
3, 4, 7, 8: Ground

Unit: mm

F. PCB FOOTPRINT:

![PCB Footprint Diagram]
G. PACKING:

1. Reel dimension

2. Tape Dimension
SAW Filter 435.0MHz  
Part No: MP04368  

H. RECOMMENDED REFLOW PROFILE:

![Temperature vs Time Graph]

Temperature (Deg C) vs Time (Sec) graph showing the recommended reflow profile for the SAW Filter 435.0MHz with Model TB0902A and Part No MP04368.