400MHz SAW Filter
Part No: MA08120

A. MAXIMUM RATING:

1. Input Power Level: 0dBm
2. Operating Temperature: -40°C to 85°C
3. Storage Temperature: -40°C to 85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Type.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency, Fc</td>
<td>MHz</td>
<td>-</td>
<td>400</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss, IL</td>
<td>dB</td>
<td>-</td>
<td>7.5</td>
<td>10</td>
<td>-</td>
</tr>
<tr>
<td>Passband width, BW3</td>
<td>MHz</td>
<td>4.5</td>
<td>7.3</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple in Fc±1MHz</td>
<td>dB</td>
<td>-</td>
<td>0.8</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Group delay ripple in Fc±1MHz</td>
<td>nS</td>
<td>-</td>
<td>70</td>
<td>100</td>
<td>-</td>
</tr>
<tr>
<td>Phase Linearity in Fc±1MHz</td>
<td>deg</td>
<td>1.7</td>
<td>4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Attenuation:(Ref level from Min IL)</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10 MHz to 370 MHz</td>
<td>dB</td>
<td>30</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>370 MHz to 387 MHz</td>
<td>dB</td>
<td>30</td>
<td>32</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>413 MHz to 430 MHz</td>
<td>dB</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>430 MHz to 600 MHz</td>
<td>dB</td>
<td>35</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

Input L1=18nH, C1=12pF
Output L2=18nH, C2=15pF
400MHz SAW Filter
Part No: MA08120

Model: TB0299A
REV NO.: 1

D. FREQUENCY CHARACTERISTICS:

Fig-1 S21 Response Horizontal: 10MHz/Div. Vertical: 10dB/Div

Fig-2 Horizontal: 2MHz/Div Vertical: 2dB/Div. Vertical: 100ns/Div
400MHz SAW Filter
Model: TB0299A
Part No: MA08120

E. OUTLINE DRAWING:

- Pin 3: Input or Balance input
- Pin 2: Input ground or Balance input return
- Pin 7: Output or Balance output
- Pin 6: Output ground or Balance output return
- Pin 1, 4, 5, 8: To be ground

Unit: mm

F. PCB FOOTPRINT
400MHz SAW Filter

Model: TB0299A
Part No: MA08120

REV NO.: 1

G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION