SAW Filter 311.040MHz
Part No: MP01170

A. MAXIMUM RATING:

1. Input Power Level: 0 dBm
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency $F_c$ (MHz)</td>
<td>-</td>
<td>311.04</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>Minimum I.L. (310.86~311.26 MHz) (dB) $I_{L_{\text{min}}}$</td>
<td>-</td>
<td>2.2</td>
<td>4.0</td>
<td></td>
</tr>
<tr>
<td>Pass band (relative to $I_{L_{\text{min}}}$)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>310.81~311.24 MHz (dB)</td>
<td>-</td>
<td>1.5</td>
<td>3.0</td>
<td>1</td>
</tr>
<tr>
<td>310.75~311.3 MHz (dB)</td>
<td>-</td>
<td>2.0</td>
<td>6.0</td>
<td></td>
</tr>
<tr>
<td>Pass bandwidth (relative to $I_{L_{\text{min}}}$) $B_{W3}$ (KHz)</td>
<td>800</td>
<td>950</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Attenuation: (relative to $I_{L_{\text{min}}}$) (dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10~270 MHz (dB)</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>270~305 MHz (dB)</td>
<td>30</td>
<td>35</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>305~309.89 MHz (dB)</td>
<td>15</td>
<td>20</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>312~331 MHz (dB)</td>
<td>10</td>
<td>15</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>331~400 MHz (dB)</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>400~1000 MHz (dB)</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

Note1. The standard definitions is in JIS C 6703
C. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

![Additional Frequency Characteristics Graph]
D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω

9pF

68nH

SAW Filter

50Ω

68nH

9pF

2, 3, 4, 6, 7, 8

E. OUTLINE DRAWING:

499

TA

#1: Input or Input Ground
#2: Input Ground or Input
#3: Output
#6: Output Ground
#4: 8: Case Ground
#3: 7: Ground
□: Date code
Unit: mm
SAW Filter 311.040MHz  
Part No: MP01170

Model: TA0499A  
REV NO.: 1

F. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION