403.50MHz SAW Filter

Part No: MA09369

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC voltage: 3 V
3. Operating Temperature: 32°C to 42°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance: \( Z_s = 50\Omega \) (balanced)
Terminating load impedance: \( Z_L = 50\Omega \)

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typical</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency ( F_c )</td>
<td>MH</td>
<td>403.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss ( IL )</td>
<td>dB</td>
<td>2.15</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude ripple ( dB )</td>
<td>0.5</td>
<td>1.7</td>
<td></td>
</tr>
<tr>
<td>VSWR ( 402 \sim 405 \text{ MHz} )</td>
<td>1.55</td>
<td>2.25</td>
<td></td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0 dB):

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>40</th>
<th>51</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>303.5 ~ 358.5 MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>358.5 ~ 388.5 MHz</td>
<td></td>
<td></td>
<td>35</td>
<td>45</td>
</tr>
<tr>
<td>423.5 ~ 448.5 MHz</td>
<td></td>
<td></td>
<td>35</td>
<td>50</td>
</tr>
<tr>
<td>448.5 ~ 503.5 MHz</td>
<td></td>
<td></td>
<td>40</td>
<td>51</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:
D. FREQUENCY CHARACTERISTICS:
Transfer Function

![Graph 1](image1)

![Graph 2](image2)
Reflection Function

Sdd11

![Graph of Sdd11 showing the frequency response of the filter.](image)

Sss22

![Graph of Sss22 showing the frequency response of the filter.](image)
403.50MHz SAW Filter
Part No: MA09369

Model: TA0529A
REV NO.: 1

E. OUTLINE DRAWING:

1,2 : Balance Input
5: Output
3,4,6,7,8: Ground
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION