2122.50MHz SAW Filter  
Part No: MA05751  
Model: TA0228A  
REV NO.: 1a

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Specification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
<td>Typ.</td>
</tr>
<tr>
<td>Center frequency $F_C$  MHz</td>
<td>-</td>
<td>2122.5</td>
</tr>
<tr>
<td>Insertion loss 2105~2140 MHz dB</td>
<td>-</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple 2105~2140 MHz dB</td>
<td>-</td>
<td>1.1</td>
</tr>
<tr>
<td>V.S.W.R 2105~2140 MHz</td>
<td>-</td>
<td>1.5</td>
</tr>
<tr>
<td>Group delay ripple 2105~2140 MHz ns</td>
<td>-</td>
<td>7</td>
</tr>
</tbody>
</table>

Attenuation:( Reference level from 0 dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>-</th>
<th>-</th>
<th>-</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 1950MHz</td>
<td>33</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1950 ~ 2050MHz</td>
<td>25</td>
<td>37</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2195 ~ 2295 MHz</td>
<td>25</td>
<td>51</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2295 ~ 3400 MHz</td>
<td>31</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3400 ~ 4000 MHz</td>
<td>23</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Impedance at $F_C$
Input $Z_{IN} = R_{IN} / C_{IN}$
Output $Z_{OUT} = R_{OUT} / C_{OUT}$

Note1. No matching network required for operation at 50Ω
C. FREQUENCY CHARACTERISTICS:

Transfer Function:

[Graphs showing frequency characteristics]
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Reflections Functions:

S11

S22
D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω → SAW Filter → 50Ω

E, C, D, F

E. OUTLINE DRAWING:

![Outline Drawing Image]

B INPUT
E OUTPUT
A, C, D, F GROUND
F. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION