SAW Filter 1575.420MHz  
Model: TA0587A
Part No: MA09738

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm (1574.42 ~ 1576.42 MHz)
2. Input Power Level: 10 dBm (D.C. ~ 1500 MHz and 1625 ~ 3000 MHz)
3. DC voltage: 7.5 V
4. Operating Temperature: -40°C to +85°C
5. Storage Temperature: -40°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency</td>
<td></td>
<td></td>
<td>1575.42</td>
</tr>
<tr>
<td>Insertion loss (1574.42~1576.42 MHz) IL</td>
<td>-</td>
<td>1.2</td>
<td>1.6</td>
</tr>
<tr>
<td>Amplitude ripple (1574.42~1576.42 MHz) (dB)</td>
<td>-</td>
<td>0.1</td>
<td>0.8</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 1000 MHz (dB)</td>
<td>20</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>1500 MHz (dB)</td>
<td>35</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>1625 ~ 1635 MHz (dB)</td>
<td>30</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>1800 ~ 3000 MHz (dB)</td>
<td>25</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>VSWR (1574.42~1576.42 MHz)</td>
<td>-</td>
<td>1.2</td>
<td>1.8</td>
</tr>
<tr>
<td>Source impedance Zs (Ω)</td>
<td>-</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Load impedance Zl (Ω)</td>
<td>-</td>
<td>50</td>
<td></td>
</tr>
</tbody>
</table>

C. PCB FOOTPRINT:
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D. OUTLINE DRAWING:

![Outline Drawing]

- #B : Input
- #D : Output
- #A,C : Ground
- Unit : mm

E. MEASUREMENT CIRCUIT:

![Measurement Circuit]
F. FREQUENCY CHARACTERISTICS:
Transfer function

![Frequency Characteristics Diagram]
SAW Filter 1575.420MHz
Part No: MA09738

Reflections Functions:

S11 VSWR

S22 VSWR
G. PACKING:
1. REEL DIMENSION
   (Reel Count: 7"=2000 typ.; 13"=10000 typ.)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile]

- **Temp (Deg C)**
- **Time (Sec)**