SAW Filter 1642.50MHz  
Model: TA0788A  
Part No: MA09739  
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 5dBm  
2. DC voltage: 5V  
3. Operating Temperature: -40°C to +90°C  
4. Storage Temperature: -51°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 Fc (dB)</td>
<td>-</td>
<td>1642.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss within 1625 ~ 1660MHz IL (dB)</td>
<td>-</td>
<td>2.1</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude ripple (p-p) within 1625 ~ 1660MHz (dB)</td>
<td>-</td>
<td>0.9</td>
<td>2.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 1500MHz (dB)</td>
<td>21</td>
<td>28</td>
<td>-</td>
</tr>
<tr>
<td>1525 ~ 1559MHz (dB)</td>
<td>30</td>
<td>34</td>
<td>-</td>
</tr>
<tr>
<td>1700 ~ 2050MHz (dB)</td>
<td>30</td>
<td>33</td>
<td>-</td>
</tr>
<tr>
<td>2050 ~ 3500MHz (dB)</td>
<td>25</td>
<td>33</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 1625 ~1660MHz</td>
<td>-</td>
<td>1.5</td>
<td>2.3</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>

Note: No matching network required for operation at 50Ω
C. OUTLINE DRAWING:

![Outline Drawing]

D. MEASUREMENT CIRCUIT:

![Measurement Circuit]

E. PCB FOOTPRINT:

![PCB Footprint]
F. FREQUENCY CHARACTERISTICS:

1. Transfer function
2. Reflections Functions

S11 VSWR

S22 VSWR
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile]

- Temperature (°C) on the y-axis.
- Time (Sec) on the x-axis.

The graph illustrates the recommended reflow profile for the SAW Filter 1642.50MHz Model: TA0788A Part No: MA09739 Rev No: 1.