SAW Filter 1575.42MHz  
Model: TA0449A  
Part No: MA07465  
REV. NO.: 1

A. MAXIMUM RATING:
1. Operating Temperature: -30°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C

B. CHARACTERISTICS:
Singled to Balanced operation
Terminating source impedance: \( Z_s = 50\Omega \) unbal.
Terminating load impedance: \( Z_L = 50\Omega \) bal.

<table>
<thead>
<tr>
<th>Item</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency ( F_c )</td>
<td>-</td>
<td>1575.42</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss</td>
<td>-</td>
<td>1.9</td>
<td>2.8</td>
</tr>
<tr>
<td>Amplitude ripple</td>
<td>-</td>
<td>0.2</td>
<td>1.0</td>
</tr>
<tr>
<td>Attenuation ( 1574.22\sim1576.62 \ MHz )</td>
<td>30</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 1450 MHz</td>
<td>20</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>1450 ~ 1520 MHz</td>
<td>16</td>
<td>28</td>
<td>-</td>
</tr>
<tr>
<td>1625 ~ 1640 MHz</td>
<td>25</td>
<td>32</td>
<td>-</td>
</tr>
<tr>
<td>1710 ~ 1805 MHz</td>
<td>35</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>1805 ~ 1910 MHz</td>
<td>35</td>
<td>43</td>
<td>-</td>
</tr>
<tr>
<td>1910 ~ 2000 MHz</td>
<td>35</td>
<td>43</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]
D. OUTLINE DRAWING:

![Outline Drawing Image]

Pin configuration
6  Input, unbalanced
7  Input ground
1,2 Output, balanced
3,4,5,8 Case ground

E. PCB FOOTPRINT:

![PCB Footprint Image]
F. FREQUENCY CHARACTERISTICS:

Transfer function

![Graph of Frequency Characteristics](image1)

![Graph of Transfer Function](image2)
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G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION