### SAW Filter 1575.42MHz

**Model:** TA0769A  
**Part No:** MP01175  
**Rev No:** 1

#### A. MAXIMUM RATING:

1. Input Power Level: 10dBm  
2. DC Voltage: 3V  
3. Operating Temperature: -40°C to +85°C  
4. Storage Temperature: -55°C to +95°C

#### B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance $Z_S = 50\,\Omega$  
Terminating load impedance $Z_L = 50\,\Omega$

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency $F_c$</td>
<td>MHz</td>
<td>-</td>
<td>1575.42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Max. Insertion Loss (1574.42 ~ 1576.42MHz) $IL$</td>
<td>dB</td>
<td>-</td>
<td>1.15</td>
<td>1.6</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1574.42 ~ 1576.42MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.1</td>
<td>0.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1574.42 ~ 1576.42MHz)</td>
<td></td>
<td>-</td>
<td>1.2</td>
<td>1.9</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>100 ~ 960MHz</td>
<td>dB</td>
<td>31</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>960 ~ 1460MHz</td>
<td>dB</td>
<td>31</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1460 ~ 1513MHz</td>
<td>dB</td>
<td>22</td>
<td>26</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1648 ~ 1710MHz</td>
<td>dB</td>
<td>22</td>
<td>28</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1710 ~ 1990MHz</td>
<td>dB</td>
<td>25</td>
<td>32</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1990 ~ 2300MHz</td>
<td>dB</td>
<td>25</td>
<td>30</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2300 ~ 4000MHz</td>
<td>dB</td>
<td>29</td>
<td>31</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4000 ~ 6000MHz</td>
<td>dB</td>
<td>20</td>
<td>24</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:
E. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

- Center Frequency: 1575.42MHz
- FBW: 50Hz
- Span: 30MHz

1. SAW Filter 1575.42MHz Model: TA0769A
   Part No: MP01715
   Rev No: 1
Reflection Functions

S11

S22
F. PACKING:

1. Reel Dimension (Reel Count: 7” = 2000 typ.; 13” = 10000 typ.)

2. Tape Dimension

SECTION A-A

SECTION B-B

Direction of Feed
SAW Filter 1575.42MHz
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G. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature (°C) on the y-axis and time (Sec) on the x-axis. The graph peaks around 220°C and remains at that temperature for a period before decreasing.]