## A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

## B. ELECTRICAL CHARACTERISTICS:

<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 Fc</td>
<td>MHz</td>
<td>-</td>
<td>2160</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (2150 ~ 2170MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2</td>
<td>3.5</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (2150 ~ 2170MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.2</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (2150 ~ 2170MHz)</td>
<td></td>
<td>-</td>
<td>1.3</td>
<td>2.3</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attenuation (Reference level from 0dB)</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC ~ 500MHz</td>
<td></td>
<td>21</td>
<td>39</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>500 ~ 1900MHz</td>
<td></td>
<td>20</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1900 ~ 2050MHz</td>
<td></td>
<td>25</td>
<td>38</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2050 ~ 2090MHz</td>
<td></td>
<td>30</td>
<td>35</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2240 ~ 2300MHz</td>
<td></td>
<td>20</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2300 ~ 4500MHz</td>
<td></td>
<td>22</td>
<td>29</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

## C. MEASUREMENT CIRCUIT:

- HP Network analyzer
- SAW Filter
- 50Ω

![Measurement Circuit Diagram]
SAW Filter 2160.0MHz
Model: TA0733A
Part No: MP01503
Rev. No: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
SAW Filter 2160.0MHz
Part No: MP01503
Model: TA0733A
Rev. No: 1

F. FREQUENCY CHARACTERISTICS:

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FREQUENCY CHARACTERISTICS:

---

FREQUENCY CHARACTERISTICS:

---

FREQUENCY CHARACTERISTICS:

---
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension (Reel Count: 7" = 1000; 13" = 3000)

2. Tape Dimension

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SECTION A-A

SECTION B-B

DIMENSION : mm

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature (Deg C) on the y-axis and time (Sec) on the x-axis. The graph peaks around 260 degrees Celsius and takes approximately 20 minutes to complete the cycle.]