SAW Filter 423.75MHz
Part No: MP04964

A. MAXIMUM RATING: 
1. Input Power Level: 15dBm
2. DC Voltage: 0V
3. Operating Temperature: -40°C to +85°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>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>423.75</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (421.5 ~ 426MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude Ripple (421.5~426MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>2.2</td>
</tr>
<tr>
<td>VSWR (421.5 ~ 426MHz)</td>
<td>-</td>
<td>-</td>
<td>1.4</td>
<td>2.2</td>
</tr>
<tr>
<td>Group delay ripple (421.5 ~ 426MHz)</td>
<td>ns</td>
<td>-</td>
<td>55</td>
<td>220</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>0.3 ~ 410MHz</td>
<td>dB</td>
<td>45</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>411.5 ~ 416MHz</td>
<td>dB</td>
<td>15</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>450 ~ 480MHz</td>
<td>dB</td>
<td>45</td>
<td>63</td>
<td>-</td>
</tr>
<tr>
<td>480 ~ 1000MHz</td>
<td>dB</td>
<td>40</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 2000MHz</td>
<td>dB</td>
<td>23</td>
<td>27</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

Diagram:

```
50Ω  2  SAW Filter  6  50Ω
data 1,3,4,5,7,8
```
SAW Filter 423.75MHz
Model: TA1613A
Part No: MP04964
Rev. No: 1

D. OUTLINE DRAWING:

#2: Input
#6: Output
#4, 8: Case Ground
#1, 3, 5, 7: Ground

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:
Reflection Functions

**S11**

**S22**
G. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing recommended reflow profile with temperature vs. time](image)

- **Temp (Deg C)**: 20 to 280
- **Time (Sec)**: 0 to 360

The graph illustrates the recommended reflow profile for the SAW Filter 423.75MHz Model: TA1613A Part No: MP04964 Rev. No:1.