SAW Filter 413.0MHz
Part No: MP04963

A. MAXIMUM RATING:

1. Input Power Level: 15dBm
2. DC Voltage: 3V
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>413</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (412 ~ 414MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.8</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude Ripple (412 ~ 414MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1.5</td>
</tr>
<tr>
<td>VSWR (412 ~ 414MHz)</td>
<td>-</td>
<td>-</td>
<td>1.4</td>
<td>2.2</td>
</tr>
</tbody>
</table>

Temperature Coefficient of Frequency ppm/°C -36 -

C. MEASUREMENT CIRCUIT:

HP Network analyzer

[Diagram of measurement circuit]
SAW Filter 413.0MHz  
Model: TA1614A  
Part No: MP04963  
Rev. No:1

D. OUTLINE DRAWING:

![Outline Drawing]

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

E. PCB FOOTPRINT:

![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

[Diagram showing tape dimension details]
H. RECOMMENDED REFLOW PROFILE: