SAW Filter 1970.0MHz
Part No: MP04405

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>1970</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1940 ~ 2000MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1940 ~ 2000MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1940 ~ 2000MHz)</td>
<td></td>
<td>-</td>
<td>1.7</td>
<td>2.4</td>
<td>-</td>
</tr>
</tbody>
</table>

Relative Attenuation (relative to 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC ~ 1860MHz</td>
<td>20</td>
<td>32</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1860 ~ 1920MHz</td>
<td>9</td>
<td>13</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2020 ~ 2050MHz</td>
<td>4.5</td>
<td>8</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2050 ~ 2080MHz</td>
<td>20</td>
<td>61</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2080 ~ 4000MHz</td>
<td>22</td>
<td>31</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]
D. OUTLINE DRAWING:

```
A
B
C
D
E
F

B: Input
E: Output
A, C, D, F: Ground
Unit: mm
```

E. PCB FOOTPRINT:

```
3.20SQ

1.09
1.05
1.70
0.81
0.38
```

SAW Filter 1970.0MHz
Model: TA0605A
Part No: MP04405
Rev No: 1
F. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with various markers and db levels.]
SAW Filter 1970.0MHz
Part No: MP04405
Rev No: 1

Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing temperature vs. time for a reflow profile. The graph has a y-axis labeled 'Temp (Deg C)' and an x-axis labeled 'Time (Sec).']