A. **MAXIMUM RATING:**

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: 0°C to +50°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>1486.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1484 ~ 1489MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>3</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1484 ~ 1489MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.2</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1484 ~ 1489MHz)</td>
<td>-</td>
<td>1.6</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Attenuation (Reference level from 0dB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC ~ 100MHz</td>
</tr>
<tr>
<td>60 69</td>
</tr>
<tr>
<td>1395 ~ 1400MHz</td>
</tr>
<tr>
<td>20 48</td>
</tr>
<tr>
<td>1573 ~ 1578MHz</td>
</tr>
<tr>
<td>20 52</td>
</tr>
<tr>
<td>2881.5 ~ 2886.5MHz</td>
</tr>
<tr>
<td>40 43</td>
</tr>
<tr>
<td>3059.5 ~ 3064.5MHz</td>
</tr>
<tr>
<td>40 42</td>
</tr>
</tbody>
</table>

C. **MEASUREMENT CIRCUIT:**

```
HP Network analyzer
50Ω  SAW Filter 50Ω
A, C, D, F
```
SAW Filter 1486.50MHz
Part No: MP01335
Rev. NO: 2

D. OUTLINE DRAWING:

Note:
The base material is ceramic with Au over Ni plating.
The plating thicknesses are:
 Electro Ni: 1.27 ~ 8.89µm.
 Electro Au: 0.3 ~ 1.0µm (solder pads only).
 0.3µm Min. (Others).

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

SAW Filter 1486.50MHz
Part No: MP01335
Model: TA0720A
Part No: MP01335
Rev. NO: 2
Reflection Functions

**S11**

![Reflection Functions Graph]

**S11 Smith (Rap3) Scale 1.0000 [F2]

<table>
<thead>
<tr>
<th>Frequency (GHz)</th>
<th>75.419</th>
<th>-25.771</th>
<th>6.8175 pF</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; 5</td>
<td>64.002</td>
<td>-25.962</td>
<td>6.6989 pF</td>
</tr>
</tbody>
</table>

Center 1.4B60 GHz | 3 GHz | Span 100 MHz | Full Cont

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SAW Filter 1486.50MHz
Model: TA0720A
Part No: MP01335
Rev. NO: 2
SAW Filter 1486.50MHz
Model: TA0720A
Part No: MP01335
Rev. NO: 2

S22
G. PACKING:

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

2. Tape Dimension
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 illustrates a temperature profile over time with a peak temperature reaching above 250 degrees Celsius. The time axis ranges from 0 to 360 seconds.]