SAW Filter 345.0MHz
Model: TA1717A
Part No: MP07235
Rev No: 1

A. MAXIMUM RATING:

   Electrostatic Sensitive Device (ESD)

   1. Input Power Level: 10dBm
   2. DC Voltage: 3V
   3. Operating Temperature: -40°C to +125°C
   4. Storage Temperature: -40°C to +125°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>345</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (344.6 ~ 345.4MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.3</td>
<td>3.3</td>
</tr>
<tr>
<td>Amplitude ripple (344.6 ~ 345.4MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.3</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0)

<table>
<thead>
<tr>
<th>Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 320MHz</td>
<td>dB</td>
<td>50</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>320 ~ 325MHz</td>
<td>dB</td>
<td>50</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>325 ~ 337MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>337 ~ 339MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>351 ~ 358MHz</td>
<td>dB</td>
<td>13</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>358 ~ 370MHz</td>
<td>dB</td>
<td>35</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>370 ~ 700MHz</td>
<td>dB</td>
<td>47</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>700 ~ 1000MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-30</td>
<td>-</td>
</tr>
</tbody>
</table>
C. MEASUREMENT CIRCUIT:

HP Network analyzer

```
<table>
<thead>
<tr>
<th>2</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>50Ω</td>
<td>SAW Filter</td>
</tr>
<tr>
<td>1,3,4,5,7,8</td>
<td></td>
</tr>
</tbody>
</table>
```

D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. S21 Measurement:

![Diagram of S21 Measurement](image)

- Low Frequency: 1.24 GHz
- Mid Frequency: 2.48 GHz
- High Frequency: 3.44 GHz

FREQUENCY RESPONSE:

- Gain: 1.86 dB
- Phase: 0°

FREQUENCY RESPONSE (Continued):

- Gain: 1.05 dB
- Phase: 0°
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2. S11 / S22 Measurement:

![S11 / S22 Measurement Diagram]

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G. PACKING:

1. Reel Dimension

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

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

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