A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: -25°C to +75°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 $F_c$</td>
<td>MHz</td>
<td>-</td>
<td>866</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss 860 ~ 872MHz</td>
<td>dB</td>
<td>-</td>
<td>2.0</td>
<td>3.5</td>
</tr>
<tr>
<td>Bandwidth BW -1.5dB</td>
<td>MHz</td>
<td>12</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Attenuation</td>
<td>dB</td>
<td>40</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40</td>
<td>49</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance $Z_s$</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance $Z_L$</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note 1. No matching network required for operation at 50.

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω → SAW Filter → 50Ω

A, C, D, E
D. FREQUENCY CHARACTERISTICS:

![Graph of frequency characteristics]

- **Graph 1**
  - Center frequency: 866.0000 MHz
  - Span: 0.0000 MHz
- **Graph 2**
  - Center frequency: 866.0000 MHz
  - Span: 0.0000 MHz

**CHL Markers**
- 1: 54.757 dB
- 2: 51.497 dB
- 3: 48.774 dB
- 4: 45.908 dB
- 5: 43.082 dB
Reflections Functions

S11

S22
SAW Filter 866.0MHz
Part No: MA05378

E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 245 ~ 260°C peak (min. 10sec).
4. Time: 2 times.