A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. 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>1200</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1160 ~ 1240MHz)</td>
<td>dB</td>
<td>-</td>
<td>5.1</td>
<td>7</td>
</tr>
<tr>
<td>Pass Band Ripple (1160 ~ 1240MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>4.2</td>
</tr>
<tr>
<td>Group Delay Variation (1160 ~ 1240MHz)</td>
<td>ns</td>
<td>-</td>
<td>12</td>
<td>35</td>
</tr>
<tr>
<td>Return loss (1160 ~ 1240MHz)</td>
<td>dB</td>
<td>6</td>
<td>6.5</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-80</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω     SAW Filter     50Ω
d, c; e, f
```

TA1686A v1
D. FREQUENCY CHARACTERISTICS:

1. Transfer Function

![Transfer Function Graph]

![Impedance Magnitude Graph]
2. Reflection Functions

**S11**

![Graph of S11](image)

**S22**

![Graph of S22](image)
### E. OUTLINE DRAWING:

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

### F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

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H. RECOMMENDED REFLOW PROFILE:

![Graph showing reflow profile](image)