SAW Filter 125.0MHz
Part No: MP01201

A. MAXIMUM RATING:
1. Operating Temperature: -20°C ~ +70°C
2. Storage Temperature: -40°C ~ +85°C
3. Input Power Level: 10dBm

B. CHARACTERISTICS:
1. Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
<th>Note.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency  FC  MHz</td>
<td>Min.</td>
<td>Max.</td>
</tr>
<tr>
<td>Maximum Insertion loss  I.L.  dB</td>
<td>-</td>
<td>12.5</td>
</tr>
<tr>
<td>1dB Bandwidth  MHz</td>
<td>-</td>
<td>29.0</td>
</tr>
<tr>
<td>3dB Bandwidth  MHz</td>
<td>30.0</td>
<td>30.2</td>
</tr>
<tr>
<td>40dB Bandwidth  MHz</td>
<td>-</td>
<td>34.5</td>
</tr>
<tr>
<td>Passband Ripple (FC±14 MHz)  dB</td>
<td>-</td>
<td>0.64</td>
</tr>
<tr>
<td>Group Delay Ripple (FC±14 MHz)  nS</td>
<td>-</td>
<td>15</td>
</tr>
<tr>
<td>Temp Coefficient  ppm/C</td>
<td>-</td>
<td>-86</td>
</tr>
<tr>
<td>Absolute Delay  uS</td>
<td>0.88</td>
<td></td>
</tr>
<tr>
<td>Attenuation:( Reference level from minimum insertion loss)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1) Ultimate Attenuation  dB</td>
<td>40</td>
<td>55</td>
</tr>
</tbody>
</table>

C. OUTLINE DRAWING:

Pin configuration
#K RF Input
#L RF Input ground
#E RF Output
#F RF Output ground
#A,B,C,D,G,H,I,J To be ground

Unit: mm
D. FREQUENCY CHARACTERISTICS:

1. S21 Response

![Graph]

Fig. 1 S21 Response Horizontal: 15MHz/Div; Vertical: 10dB/Div

2. Pass band Ripple

![Graph]

Fig. 2 Inband ripple Horizontal: 4MHz/Div; Vertical: 1dB/Div
3. S21 Response

Fig. 3 Group Delay  Horizontal: 4MHz/Div; Vertical: 50nS/Div

4. Wide band Response

Fig. 2 Wide band  Horizontal: 25MHz/Div; Vertical: 10dB/Div
E. TEST FIXTURE:

```
50 ohm  C1  K  50 ohm
L1  G.H.I.J.K  A.B.C.D.F  L2
C1=120pF  L1=33nH  C2=120pF  L2=36nH
```

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION