SAW Filter 240MHz  
Part No: MP02165  
Model: TB0376A  
REV NO.: 2

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

B. CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Center frequency ( F_c ) MHz</td>
<td>239.5</td>
</tr>
<tr>
<td>Maximum Insertion loss I.L. dB</td>
<td>-</td>
</tr>
<tr>
<td>1dB Bandwidth MHz</td>
<td>10.5</td>
</tr>
<tr>
<td>3dB Bandwidth MHz</td>
<td>-</td>
</tr>
<tr>
<td>40dB Bandwidth MHz</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple at any 200kHz within 11MHz dB</td>
<td>-</td>
</tr>
<tr>
<td>Group Delay Ripple (234.5 ~245.5MHz) nS</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient ppm/°C</td>
<td>-23</td>
</tr>
</tbody>
</table>

Attenuation:( Reference level from minimum insertion loss)
1) 100 ~ 223 MHz  
40 43 - -
2) 257MHz ~ 500 MHz dB  
42.5 46 - -

C. TEST CIRCUIT:

```
50 ohm

\[ L1 = 39 \text{nH} \]
\[ C1 = 27 \text{pF} \]
\[ L3 = 12 \text{nH} \]
\[ L3 = 15 \text{nH} \]
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D. OUTLINE DRAWING:

Pin D : Unbalanced Input
Pin J : Unbalanced Output
Pin A, B, C, E, F, G, H, I, K, L : To be Ground

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

(1) wide band of Response:

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

(2) Passband of Response:

Fig-2 Group Delay and Ripple, Horizontal: 2MHz/Div. Vertical: 1 dB/Div Vertical: 100nS/Div
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G. PACKING:

(1). REEL DIMENSION

(2). TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE: