SAW Filter 480MHz  
Part No: MP02597  

Model: TB0606A  
REV. NO.: 1

A. **MAXIMUM RATING:**
1. Input Power Level: 10dBm
2. Operating Temperature: -40°C to 60°C
3. Storage Temperature: -40°C to 85°C

B. **ELECTRICAL CHARACTERISTICS:**
Ambient Temperature: 25°C

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Type.</th>
<th>Max.</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency, Fc</td>
<td>MHz</td>
<td>479</td>
<td>480</td>
<td>481</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss at Fo, IL</td>
<td>dB</td>
<td>-</td>
<td>12</td>
<td>18</td>
<td>-</td>
</tr>
<tr>
<td>Passband Ripple 460~500 MHz</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>1.0</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation:(Reference level from Fc)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>417~436.8 MHz</td>
<td>dBC</td>
<td>38</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>525~545 MHz</td>
<td>dBC</td>
<td>38</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Temp. Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-94</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Load Impedance</td>
<td>Ohm</td>
<td>-</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
C. Frequency Characteristics:

1. S21 Response

![S21 Response Graph]

Fig1. Horizontal: 30MHz/Div Vertical: 10dB/Div

2. S21 Response (narrow band)

![S21 Narrow Band Graph]

Fig2. Horizontal: 6MHz/Div Vertical: 1dB/Div Vertical: 20ns/Div
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D. MEASUREMENT CIRCUIT:

![Circuit Diagram]

L1=10nH L2=18nH C1=12pF C2=12pF

E. OUTLINE DRAWING:

![Outline Drawings]

#1 – Input
#2 – Input ground
#3, 4, 7, 8 – Ground
#5 – Output
#6 – Output ground

F. PCB FOOTPRINT:

![PCB Footprint Diagram]
G. PACKING:

1. REEL DIMENSION:

2. TAPE DIMENSION: