SAW Filter: 412.50MHz  Model: TA1636A  
Part No: MP05483  Rev No: 1

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. 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 Fc MHz</td>
<td>-</td>
<td>412.5</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1dB Bandwidth MHz</td>
<td>dB</td>
<td>-</td>
<td>19.5</td>
<td>-</td>
</tr>
<tr>
<td>3dB Bandwidth MHz</td>
<td>dB</td>
<td>20</td>
<td>23.3</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 403 ~ 422MHz</td>
<td>dB</td>
<td>-</td>
<td>2.3</td>
<td>3.0</td>
</tr>
<tr>
<td>Attenuation (reference from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10 ~ 360MHz</td>
<td>dB</td>
<td>50</td>
<td>58</td>
<td>-</td>
</tr>
<tr>
<td>360 ~ 385MHz</td>
<td>dB</td>
<td>47</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>470 ~ 600MHz</td>
<td>dB</td>
<td>47</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>600 ~ 1000 MHz</td>
<td>dB</td>
<td>43</td>
<td>48</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>
C. FREQUENCY CHARACTERISTICS:

1. Wideband response: (span 1GHz)

![Wideband response graph]

2. S21 response: (span 200MHz)

![S21 response graph]
3. Passband response: (span 40MHz)
D. MEASUREMENT CIRCUIT:

HP Network analyzer

![Measurement Circuit Diagram]

E. OUTLINE DRAWING:

![Outline Drawing]

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

F. PCB FOOTPRINT:

![PCB Footprint Diagram]

Dimensions in mm
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE: