A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 13dBm
2. DC Voltage: 10V
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</td>
<td>MHz</td>
<td>-</td>
<td>480</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (478 ~ 482MHz) IL</td>
<td>MHz</td>
<td>-</td>
<td>1.7</td>
<td>3.0</td>
</tr>
<tr>
<td>Bandwidth @ -1Db</td>
<td>MHz</td>
<td>-</td>
<td>13</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (478 ~ 482MHz)</td>
<td></td>
<td>-</td>
<td>1.2</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Attenuation (Reference level from 0dB)

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>dB</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ~ 450MHz</td>
<td></td>
<td>45</td>
<td>49</td>
<td>-</td>
</tr>
<tr>
<td>508 ~ 1000MHz</td>
<td></td>
<td>38</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>1700 ~ 1745MHz</td>
<td></td>
<td>30</td>
<td>44</td>
<td>-</td>
</tr>
<tr>
<td>2400 ~ 3000MHz</td>
<td></td>
<td>3</td>
<td>5</td>
<td>-</td>
</tr>
</tbody>
</table>

Temperature coefficient of frequency ppm/k

-36

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![circuit_diagram]
SAW Filter 480.0MHz
Model: TA1631A
Part No: MP05663
Rev. No: 1

D. OUTLINE DRAWING:

2: Input
6: Output
1, 3, 4, 5, 7, 8: Ground
Unit: mm

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Graph 1]

![Graph 2]
SAW Filter 480.0MHz
Part No: MP05663
Model: TA1631A
Rev. No: 1

Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension

Section A-A

Direction of Feed
SAW Filter 480.0MHz  
Model: TA1631A  
Part No: MP05663  
Rev. No: 1

H. RECOMMENDED REFLOW PROFILE:

[Diagram of reflow profile with temperature and time axes]