SAW Filter 427.50MHz
Part No: MP07253

Model: TA1635A
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>MHz</td>
<td>-</td>
<td>427.5</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>23.6</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 420 ~ 435MHz</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>3.0</td>
</tr>
<tr>
<td>Attenuation (reference from 0dB)</td>
<td>dB</td>
<td>50</td>
<td>56</td>
<td>-</td>
</tr>
<tr>
<td>10 ~ 360MHz</td>
<td>dB</td>
<td>47</td>
<td>53</td>
<td>-</td>
</tr>
<tr>
<td>360 ~ 400MHz</td>
<td>dB</td>
<td>47</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>487 ~ 600MHz</td>
<td>dB</td>
<td>43</td>
<td>48</td>
<td>-</td>
</tr>
<tr>
<td>600 ~ 1000MHz</td>
<td>dB</td>
<td>50</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance ZS</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance ZL</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](image1)

2. S21 response: (span 200MHz)

![S21 response graph](image2)
3. Passband response: (span 40MHz)

D. MEASUREMENT CIRCUIT:

HP Network analyzer

```
50Ω  SAW Filter 50Ω
     | A, C, D, F
     | B
     | E
```

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E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Graph showing the recommended reflow profile for the SAW Filter 427.50MHz Model: TA1635A Part No: MP07253 Rev No: 1. The graph displays temperature (°C) vs. time (Sec). The profile peaks at a certain temperature and duration, indicating the recommended reflow conditions.]