SAW Filter 462.0MHz  Model: TA462E1
Part No: MA05090  Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 0 dBm
2. Withstanding voltage for short term between each terminal: 10 Vdc
3. Operating Temperature: -10°C to 50°C
4. Storage Temperature: -40°C to +85°C  Electrostatic Sensitive Device (ESD)

B. 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>462</td>
<td>-</td>
</tr>
<tr>
<td>Ripple (Within Fc ± 4MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>2.5</td>
</tr>
<tr>
<td>Insertion loss IL (Within Fc ± 4MHz)</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>4.5</td>
</tr>
<tr>
<td>Attenuation (reference from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -100 to Fc -40.8MHz</td>
<td>dB</td>
<td>50</td>
<td>53.7</td>
<td>-</td>
</tr>
<tr>
<td>Fc +40 to Fc +100MHz</td>
<td>dB</td>
<td>42</td>
<td>51.1</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>

Note 1. No matching network required for operation at 50Ω
C. TRANSFER FUNCTION:

1. Wideband

![Wideband Transfer Function Graph]

2. Passband

![Passband Transfer Function Graph]
D. MEASUREMENT CIRCUIT:

Source impedance

Load impedance

Z_N=50Ω // 0pF

Z_{out}=50Ω // 0pF

E. OUTLINE DRAWING:

1: Input
4: Output
2, 3: Ground

Unit: mm
F. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

**SAW Filter 462.0MHz**
**Model: TA462E1**
**Part No: MA05090**
**Rev No: 1**