**SAW Filter 169.0MHz**

**Model: TA0437A**

**Part No: MA07107**

**Rev No: 2**

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**A. MAXIMUM RATING:**

1. Input Power Level: 15dBm
2. DC voltage: 3V
3. Operating Temperature: -10°C to +70°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level (MSL): Level 1

**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>169</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss IL min (reference level)</td>
<td>dB</td>
<td>-</td>
<td>1.5</td>
<td>2.8</td>
</tr>
<tr>
<td>Bandwidth BW -3dB</td>
<td>MHz</td>
<td>6</td>
<td>8.8</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Attenuation (reference to IL min dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -50 ~ Fc -30MHz</td>
<td>dB</td>
<td>42</td>
<td>54</td>
<td>-</td>
</tr>
<tr>
<td>Fc -30 ~ Fc -15MHz</td>
<td>dB</td>
<td>36</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>Fc +30 ~ Fc +50MHz</td>
<td>dB</td>
<td>40</td>
<td>51</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:**

IL min is the minimum of the pass band attenuation. The center frequency Fc is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL min.
C. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Graph]

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D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω ——— 2 ——— SAW Filter ——— 6 ——— 50Ω

1, 3, 4, 5, 7, 8

E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension

2. Tape Dimension

Direction of Feed