SAW Filter 428.835MHz
Part No: MA08362
Model: TA0593A
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: +15°C to +35°C
4. Storage Temperature: -40°C to +85°C

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>428.835</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 426.335 ~ 431.335MHz IL</td>
<td>dB</td>
<td>-</td>
<td>2.2</td>
<td>3.6</td>
</tr>
<tr>
<td>Amplitude ripple 426.335 ~ 431.335MHz</td>
<td>dB</td>
<td>-</td>
<td>0.7</td>
<td>2.1</td>
</tr>
<tr>
<td>VSWR 426.335 ~ 431.335MHz</td>
<td>dB</td>
<td>-</td>
<td>1.4</td>
<td>2.1</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>1 ~ 379MHz</td>
<td></td>
<td>31</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>379 ~ 394MHz</td>
<td></td>
<td>10</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>394 ~ 417MHz</td>
<td></td>
<td>37</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>455.9 ~ 469MHz</td>
<td></td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>469 ~ 550MHz</td>
<td></td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
<tr>
<td>Temperature coefficient of frequency</td>
<td>ppm/k</td>
<td>-</td>
<td>-36</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. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω  SAW Filter 50Ω
2  6
1, 3, 4, 5, 7, 8
D. TRANSFER FUNCTION:

![Graph of transfer function with data points and labels]

- **Center**: 428.835 MHz
- **IFBW**: 70 kHz
- **Span**: 200 MHz

**Plot 1**

- **Log Mag**: ±0.0000 dB/10 kHz
- **Kef**: ±4.0000 dB

**Plot 2**

- **Log Mag**: ±0.0000 dB/10 kHz
- **Kef**: ±2.0000 dB

**Notes:**
- Model: TA0593A
- Rev No: 1
- Part No: MA08362
- Part No: MA08362
- SAW Filter 428.835MHz
- Tel: +44 1460 256 100
- Fax: +44 1460 256 101
- www.golledge.com
- Golledge Electronics Ltd
  Eaglewood Park, ILMINSTER
  Somerset, TA19 9DQ, UK
SAW Filter 428.835MHz
Part No: MA08362
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VSWR S11

VSWR S22
E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT:
SMA Filter 428.835MHz
Part No: MA08362
Rev No: 1

G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

Direction of Feed
H. REFLOW PROFILE:

![Recommended Reflow Profile Graph]

- **Time (Sec)** from 0 to 360
- **Temp (Deg C)** from 0 to 280

Graph showing the recommended reflow profile for the SAW Filter 428.835MHz component with model TA0593A and part number MA08362.