SAW Filter 441.265MHz  Model: TA0594A  
Part No: MA08363  
REV NO.: 1

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC voltage: 3 V
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>Min.</th>
<th>Typical</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc MHz</td>
<td></td>
<td>441.265</td>
<td></td>
</tr>
<tr>
<td>Insertion loss dB</td>
<td>2.2</td>
<td>3.6</td>
<td></td>
</tr>
<tr>
<td>Amplitude ripple dB</td>
<td>0.7</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td>VSWR dB</td>
<td>1.45</td>
<td>2.1</td>
<td></td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB) MHz dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>1 ~ 385.0  MHz dB</td>
<td></td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>385.0 ~ 394.0 MHz dB</td>
<td></td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>394.0 ~ 429.0 MHz dB</td>
<td>10</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>482.0 ~ 500.0 MHz dB</td>
<td>37</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>500.0 ~ 550.0 MHz dB</td>
<td>40</td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Temperature coefficient of frequency ppm/k</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Zs Ω</td>
<td></td>
<td>50</td>
<td></td>
</tr>
<tr>
<td>Load impedance ZL 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 2 6
SAW Filter
50Ω
1,3,4,5,7,8
```
D. TRANSFER FUNCTION:

![Graph 1](Image1)

**Graph 1:** Log Mag 2.000mV Ref -8.000mV (F2)

1. Center: 438.75 MHz
2. Bandwidth: 20 kHz
3. Span: 20 MHz

**Graph 2:** Log Mag 10.000dB Ref -40.000dB (F2)

1. Center: 441.265 MHz
2. Bandwidth: 70 kHz
3. Span: 200 MHz

**Specifications:**
- Model: TA0594A
- Part No: MA08363
- REV NO.: 1
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VSWR S11

VSWR S22
SAW Filter 441.265MHz
Model: TA0594A
Part No: MA08363
REV NO.: 1

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
H. REFLOW PROFILE

Recomended Reflow Profile

![Reflow Profile Graph]

- Time (Sec)
- Temp (Deg C)