SAW Filter 1489MHz

Model: TA1047A

Part No: MP02195

REV NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: +10 dBm
2. DC Voltage: 3V
3. Operating Temperature: 0°C to +50°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>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>1489</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1486.5~1491.5 MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.75</td>
<td>4</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss at Center Frequency ILc</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>3.4</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (1486.5~1491.5 MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.1</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>Bandwidth @ -1 dB</td>
<td>MHz</td>
<td>5</td>
<td>39</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1486.5~1491.5 MHz)</td>
<td>-</td>
<td>1.5</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 100 MHz</td>
<td>dB</td>
<td>60</td>
<td>80</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>100 ~ 1395 MHz</td>
<td>dB</td>
<td>40</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1395 ~ 1401 MHz</td>
<td>dB</td>
<td>30</td>
<td>46</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1577 ~ 1583 MHz</td>
<td>dB</td>
<td>30</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2884 ~ 3072 MHz</td>
<td>dB</td>
<td>40</td>
<td>42</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4373 ~ 4561 MHz</td>
<td>dB</td>
<td>6</td>
<td>14</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω  B  SAW Filter  E  50Ω
A, C, D, F
SAW Filter 1489MHz  
Model: TA1047A  
Part No: MP02195

D. OUTLINE DRAWING:

```
A
B
C
D
E
F

3.0SQ
```

```
A
B
C
D
E
F

1.5REF
```

```
A
B
C

1.6 TYP.

0.85 REF.
```

```
A
B
C
D
E
F

0.6 TYP.
```

E : Output
A,C,D,F : Ground
Unit : mm

E. PCB FOOTPRINT:

```
3.20SQ
```

```
1.70
```

```
0.38
```

```
0.81
```

```
1.09
```

```
1.05
```

```
1.09
```

```
1.05
```

```
1.09
```

```
1.05
```

```
1.09
```

```
1.05
```

```
1.09
```

```
1.05
```

```
1.09
```

```
1.05
```
SAW Filter 1489MHz
Part No: MP02195

F. FREQUENCY CHARACTERISTICS:
Reflection Functions:

S11

S22
SAW Filter 1489MHz
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REV NO.: 1

G. PACKING:
1. REEL DIMENSION
   (Reel Count: 7"=1000; 13"=3000)

2. TAPE DIMENSION

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TA1047A v1
H. RECOMMENDED REFLOW PROFILE:

![Temperature vs Time Graph](image)

- Time (Sec)
- Temp (Deg C)