SAW Filter 1994.6MHz
Model: TA0885A
Part No: MP02675
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +95°C

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (differential): \( Z_s = 150\Omega \parallel 18nH \)
Terminating load impedance (differential): \( Z_L = 150\Omega \parallel 18nH \)

<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>1994.6</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>BANDWIDTH AT -2DB</td>
<td>MHz</td>
<td>40</td>
<td>63</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>INSERTION LOSS IN 1974.6 ~ 2014.6MHz</td>
<td>dB</td>
<td>-</td>
<td>2.6</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>AMPLITUDE RIPPLE (1974.6MHz ~ 2014.6MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>PHASE ERROR (1974.6MHz ~ 2014.6MHz)</td>
<td>deg</td>
<td>-</td>
<td>2.7</td>
<td>5</td>
<td>-</td>
</tr>
<tr>
<td>GROUP DELAY RIPPLE (1974.6MHz ~ 2014.6MHz)</td>
<td>ns</td>
<td>-</td>
<td>5</td>
<td>25</td>
<td>-</td>
</tr>
<tr>
<td>I/O VSWR (1974.6MHz ~ 2014.6MHz)</td>
<td></td>
<td>-</td>
<td>1.4</td>
<td>2.5</td>
<td>-</td>
</tr>
<tr>
<td>ATTENUATION</td>
<td></td>
<td>44</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>50 ~ 1912.5MHz</td>
<td>dB</td>
<td>44</td>
<td>49</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2076.7 ~ 2150MHz</td>
<td>dB</td>
<td>44</td>
<td>58</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2150 ~ 4250MHz</td>
<td>dB</td>
<td>38</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4250 ~ 6000MHz</td>
<td>dB</td>
<td>30</td>
<td>41</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Notes:

The amplitude reference is insertion loss at \( F_c \).

The amplitude ripple is defined as the max. level - min. level over any 30MHz block of the given bandwidth.

The phase error is measured over any 30MHz block of the given bandwidth.
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C. OUTLINE DRAWING:

D. MEASUREMENT CIRCUIT:
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Part No: MP02675

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

![Frequency Response Graph]

1. Center 1.9946 GHz
2. 3 dB BW 2.00 kHz
3. Span 100 MHz
4. 20 dBm

1. 1.974600000 GHz -2.5140 dB
2. 2.014600000 GHz -2.4436 dB

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Reflection Functions

S11

S22
G. PACKING:

1. REEL DIMENSION

(Reel Count: 7” = 1000; 13” = 3000)

2. TAPE DIMENSION
H. RECOMMENDED REFLOW PROFILE:

![Graph](image)

- Time (Sec)
- Temp (Deg C)