SAW Filter 440.0MHz
Modèle: TA1808A
N° de partie: MP07671
N° de révision: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Power niv: 10dBm
2. DC Voltage: 5V
3. Operating Temperature: -40°C to +85°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>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>440</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (430 ~ 450MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>2.4</td>
<td>3.51</td>
</tr>
<tr>
<td>Amplitude Ripple (430 ~ 450MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.9</td>
<td>2.32</td>
</tr>
<tr>
<td>Return loss (430~450 MHz)</td>
<td>dB</td>
<td>6</td>
<td>7</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td>50</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>0.3 ~ 300MHz</td>
<td>dB</td>
<td>45</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>300 ~ 380MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>380 ~ 400MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>480 ~ 880MHz</td>
<td>dB</td>
<td>40</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>880 ~ 915MHz</td>
<td>dB</td>
<td>45</td>
<td>55</td>
<td>-</td>
</tr>
<tr>
<td>915 ~ 1200MHz</td>
<td>dB</td>
<td>30</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>1200 ~ 1785MHz</td>
<td>dB</td>
<td>25</td>
<td>35</td>
<td>-</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>ppm/°C</td>
<td>-</td>
<td>-36</td>
<td>-</td>
</tr>
</tbody>
</table>

1. 2.4dB at 25°C; 3.3dB for -30°C to +60°C
2. 1.1dB at 25°C; 2.2dB for -30°C to +60°C
C. MEASUREMENT CIRCUIT:

Network analyzer

From 50Ω
to
Network
Analyzer

SAW Resonator

To 50Ω
to
Network
Analyzer

D. OUTLINE DRAWING:

Unit: mm
E. FREQUENCY CHARACTERISTICS:

1. S21 Measurement: span 200MHz

2. S21 Measurement: Span 50MHz
3. S21 Measurement: Span 3GHz

4. S11/S22 Measurement:
F. PACKING:

1. Reel Dimension

(Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

Direction of Feed

TA1808A v1
G. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150 ~ 180°C for 60 ~ 90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50 ~ 80 seconds and at 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.