Product Specifications Approval Sheet

Product Description: SAW Filter 281MHz

TST Parts No.: TA0204A

Customer Parts No.: ____________________________

Customer signature required

Company: ________________________________

Division: ________________________________

Approved by: ________________________________

Date: ________________________________

Checked by: ______ Anne Chen

Approval by: ______ Andy Yu

Date: __________ 2019/09/05

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes.
281MHz SAW Filter
MODEL NO.: TA0204A REV. NO.:3.0

A. MAXIMUM RATING:
1. Input Power Level: 0 dBm
2. DC voltage: 10 V
3. Operating Temperature: -10°C to +50°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Specification</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency $F_C$ (MHz)</td>
<td>281</td>
<td>1</td>
</tr>
<tr>
<td>I.L. (Within $F_C$±4 MHz) (dB)</td>
<td>4.5 max.</td>
<td></td>
</tr>
<tr>
<td>Pass band $BW_{4.5dB}$ (MHz)</td>
<td>8.0 min.</td>
<td>1</td>
</tr>
<tr>
<td>Ripple (Within $F_C$ ± 4MHz) (dB)</td>
<td>2.0 max.</td>
<td>1</td>
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<tr>
<td>Attenuation: (Reference level from 0 dB) $F_C$ - 100MHz to -37.5MHz (dB )</td>
<td>48 min.</td>
<td>1</td>
</tr>
<tr>
<td>$F_C$ +37.5MHz to +100MHz (dB )</td>
<td>48 min.</td>
<td></td>
</tr>
</tbody>
</table>

Impedance at $F_C$ ; Input $Z_{IN}=R_{IN}/C_{IN}$
Output $Z_{OUT}=R_{OUT}/C_{OUT}$

150 Ω // 0 Pf
150 Ω // 0 Pf

Note1. The standard definitions is in JIS C 6703
Note2.

Source impedance
50Ω
$Z_{IN}=150Ω // 0pF$

Load impedance
50Ω
$Z_{OUT}=150Ω // 0pF$

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device
C. FREQUENCY CHARACTERISTICS:
D.OUTLINE DRAWING:

Year Code

<table>
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<th>Year</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
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<td>Product Code</td>
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Week Code Table

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<td>y</td>
<td>z</td>
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</tbody>
</table>

#2 : Input
#6 : Output
#1,3,4,5,7,8 : Ground
Unit : mm
△ : Year code
□ : Date code

TST DCC
Release document
E. MEASUREMENT CIRCUIT:

Network analyzer

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)

![Reel Dimension Diagram]

2. TAPE DIMENSION

![Tape Dimension Diagram]

Section A-A
H. 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 (20~40sec).
4. Time: 2 times.