SAW Filter 155.0MHz  
Model: TA155FD  
Part No: MA04020  
Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device

1. Input Power Level: 0dBm
2. DC voltage: 10V
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 Fc (MHz)</td>
<td>155</td>
<td>1</td>
</tr>
<tr>
<td>IL (within Fc ± 4MHz)</td>
<td>6.5 Max.</td>
<td>1</td>
</tr>
<tr>
<td>Amplitude Ripple, A.R. (within Fc ±4MHz) (dB)</td>
<td>2.1 Max.</td>
<td></td>
</tr>
<tr>
<td>Attenuation: (Reference level from 0dB) (dB)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fc -100MHz to -38.8MHz (dB)</td>
<td>50 Min.</td>
<td>1</td>
</tr>
<tr>
<td>Fc +38.8MHz to +100MHz (dB)</td>
<td>42 Min.</td>
<td></td>
</tr>
<tr>
<td>Impedance at Fc:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input: Z_IN = R_IN // C_IN</td>
<td>390Ω // 300pF</td>
<td>2</td>
</tr>
<tr>
<td>Output: Z_OUT = R_OUT // C_OUT</td>
<td>1164Ω // 374pF</td>
<td>2</td>
</tr>
</tbody>
</table>

Note 1: The standard definition is in JIS C 6703.

Note 2: Source impedance 50Ω → 390Ω // 300pF → 50Ω  
Load impedance 50Ω → 1164Ω // 374pF → 50Ω
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C. FREQUENCY CHARACTERISTICS:

![Frequency Characteristics Diagram](https://via.placeholder.com/150)

- **Freq. (MHz)**
- **Att. (dB)**
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D. OUTLINE DRAWING:

![Outline Drawing]

#2: Input
#6: Output
#1, 3, 4, 5, 7, 8: Ground

E. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]

C1 = 9pF, L1 = 47nH, C2 = 8pF, L2 = 47nH

F. PCB FOOTPRINT:

![PCB Footprint Diagram]
G. PACKING:

1. Reel Dimensions

2. Tape Dimensions
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 ~ 40 sec).
4. Time: 2 times.