SAW Filter: 1900.0MHz  
Part No: MP05435  
Rev No: 2

**A. MAXIMUM RATING:**

1. Input Power Level: 13dBm, 2000 hours
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

1. Terminating source impedance: $Z_s = 50\Omega$
2. Terminating load impedance: $Z_L = 50\Omega$

<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 $F_c$</td>
<td>MHz</td>
<td>-</td>
<td>1900</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Insertion Loss (1880 ~ 1920 MHz)</td>
<td>dB</td>
<td>-</td>
<td>2</td>
<td>2.7</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude ripple (1880 ~ 1920MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.5</td>
<td>1.2</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (1880 ~ 1920MHz)</td>
<td>-</td>
<td>1.7</td>
<td>2</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td>Attenuation</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C ~ 1395MHz</td>
<td>dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1395 ~ 1435MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1435 ~ 1805MHz</td>
<td>dB</td>
<td>33</td>
<td>36</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>1805 ~ 1840MHz</td>
<td>dB</td>
<td>25</td>
<td>33</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2000 ~ 2135MHz</td>
<td>dB</td>
<td>25</td>
<td>27</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2135 ~ 2175MHz</td>
<td>dB</td>
<td>31</td>
<td>34</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2175 ~ 3500MHz</td>
<td>dB</td>
<td>30</td>
<td>36</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3500 ~ 6000MHz</td>
<td>dB</td>
<td>22</td>
<td>29</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Electrostatic Sensitive Device (ESD)
C. OUTLINE DRAWING:

- Top View
  - Dimensions: 1.4 mm
  - Labels: B, A

- Side View
  - Label: 0.7 MAX

- Bottom View
  - Dimensions: [3X] 0.25, [5X] 0.25, [3X] 0.25, [5X] 0.075
  - Labels: A, B, D, E

D. MEASUREMENT CIRCUIT:

- Circuit Diagram
  - 50Ω resistors connected to A, B, C, D, E
  - 50Ω resistors connected to C, D, E
SAW Filter: 1900.0MHz
Model: TA1122A
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E. PCB FOOTPRINT:

: Land Pattern
Unit: mm
F. FREQUENCY CHARACTERISTICS:

![Graph showing frequency characteristics]

SAW Filter: 1900.0MHz  Model: TA1122A
Part No: MP05435  Rev No: 2
Reflection Functions

S11

S22
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension

Direction of Feed

TA1122A v2
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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.