SAW Filter: 2441.80MHz  Model: TA0223D  Part No: MP05319  Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC voltage: 0V
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>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc (dB)</td>
<td>-</td>
<td>2441.8</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (2400 ~ 2483.5MHz) IL (dB)</td>
<td>-</td>
<td>2.1</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude ripple (2400 ~ 2483.5MHz) (dB)</td>
<td>-</td>
<td>0.9</td>
<td>3.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 1700MHz (dB)</td>
<td>20.0</td>
<td>29.0</td>
<td>-</td>
</tr>
<tr>
<td>1700 ~ 2200MHz (dB)</td>
<td>25.0</td>
<td>30.0</td>
<td>-</td>
</tr>
<tr>
<td>2700 ~ 3100MHz (dB)</td>
<td>30.0</td>
<td>40.0</td>
<td>-</td>
</tr>
<tr>
<td>3100 ~ 4000MHz (dB)</td>
<td>20.0</td>
<td>29.0</td>
<td>-</td>
</tr>
<tr>
<td>4000 ~ 5000MHz (dB)</td>
<td>10.0</td>
<td>20.0</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (2400 ~ 2483.5MHz)</td>
<td>-</td>
<td>1.7</td>
<td>2.6</td>
</tr>
<tr>
<td>Source impedance Z_S (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_L (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note 1. The standard definitions is in JIS C 6703.

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram of measurement circuit]
SAW Filter: 2441.80MHz
Model: TA0223D
Part No: MP05319
Rev No: 1

D. OUTLINE DRAWING:

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

1. Transfer functions

![Graph of frequency characteristics]

- Center: 2,441,800,000 MHz
- Span: 2,300,000,000 MHz

SAW Filter: 2441.80MHz
Model: TA0223D
Part No: MP05319
Rev No: 1
2. Reflection Functions

S11 VSWR

S22 VSWR
G. PACKING:

1. Reel Dimension

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

2. Tape Dimension

SECTION A-A

DIMENSION: mm
Direction of Feed
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.