SAW Filter 452.70MHz
Part No: MA08247

Model: TB0205A

REV NO.: 1

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. Operating Temperature: -40°C to 85°C
3. Storage Temperature: -40°C to 85°C
4. DC Voltage: 0V

B. ELECTRICAL CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Min.</td>
</tr>
<tr>
<td>Center frequency $F_c$ (MHz)</td>
<td>452.3</td>
</tr>
<tr>
<td>3dB Bandwidth (MHz)</td>
<td>5</td>
</tr>
<tr>
<td>10dB Bandwidth (MHz)</td>
<td>-</td>
</tr>
<tr>
<td>20dB Bandwidth (MHz)</td>
<td>-</td>
</tr>
<tr>
<td>Minimum insertion loss. (dB)</td>
<td>-</td>
</tr>
<tr>
<td>Ripple at 451.4~454.6MHz (P-P dB)</td>
<td>-</td>
</tr>
<tr>
<td>Phase linearity at 451.4 MHz~454.6 MHz (P-P°)</td>
<td>3.5</td>
</tr>
<tr>
<td>Group delay ripple at 451.4 MHz~454.6 MHz (P-P nS)</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Group Delay at 451.4 MHz~454.6 MHz (nS)</td>
<td>-</td>
</tr>
<tr>
<td>Return Loss (Input and Output) (dB)</td>
<td>8</td>
</tr>
<tr>
<td>Triple Transit Suppression (dB)</td>
<td>35</td>
</tr>
</tbody>
</table>

Attenuation: (Reference level from Minimum IL)

(1) 415MHz~437MHz (dB) 30 40
(2) 437MHz~447MHz (dB) 20 30
(3) 459MHz~469MHz (dB) 20 25
(4) 469MHz~485MHz (dB) 30 35

C. MEASUREMENT CIRCUIT:

![Measurement Circuit Diagram]
D. FREQUENCY CHARACTERISTICS:

(1) Passband of Response:

Phase linearity, Horizontal: 1 MHz/Div
Vertical 1: 1 dB/Div  Vertical 2: 90 degree/Div

Group Delay and Ripple, Horizontal: 1 MHz/Div
Vertical 1: 1 dB/Div Vertical 2: 100 nS/Div
(2) Wide Band Response:

Horizontal: 5MHz/Div
Vertical: 10dB/Div
Reference: -30dB

(3). Triple Transit Suppression
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E. OUTLINE DRAWING:

F. PCB FOOTPRINT
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G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION