SAW Filter 942.50MHz

Model: TA942GG

Part No: MA05955

Rev No: 3

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: -30°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 (MHz)</td>
<td>-</td>
<td>942.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (925 ~ 960MHz) IL (dB)</td>
<td>-</td>
<td>2.2</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple (925 ~ 960MHz) (dB)</td>
<td>-</td>
<td>0.8</td>
<td>1.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 905MHz (dB)</td>
<td>17.0</td>
<td>20.5</td>
<td>-</td>
</tr>
<tr>
<td>905 ~ 915MHz (dB)</td>
<td>5.0</td>
<td>15.0</td>
<td>-</td>
</tr>
<tr>
<td>980 ~ 1000MHz (dB)</td>
<td>13.0</td>
<td>30.0</td>
<td>-</td>
</tr>
<tr>
<td>1000 ~ 2000 MHz (dB)</td>
<td>20.0</td>
<td>23.0</td>
<td>-</td>
</tr>
<tr>
<td>VSWR (925 ~ 960MHz)</td>
<td>-</td>
<td>2.2</td>
<td>2.7</td>
</tr>
<tr>
<td>Source impedance Zs (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note: The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:

HP Network analyzer

HP Network analyzer

SAW Filter

A, C, D, F

50Ω

B

50Ω

E

TA942GG v3
D. FREQUENCY CHARACTERISTICS:

1. Transfer function

![Transfer Function Diagram]

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SAW Filter 942.50MHz
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2. Reflections Functions

S11 VSWR

S22 VSWR
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E. OUTLINE DRAWING:

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Reel Count: 7” = 1000; 13” = 3000 or per the request of customer order)

2. Tape Dimension
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. 10sec).
4. Time: 2 times.