SAW Filter 315.0MHz

Part No: MP07597

Model: TA0657C

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC voltage: 3V
3. Operating Temperature: -40°C to 85°C
4. Storage Temperature: -40°C to +85°C

B. CHARACTERISTICS:

<table>
<thead>
<tr>
<th>Item</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency Fc</td>
<td>MHz</td>
<td>-</td>
<td>315</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (314.70 ~ 315.30MHz) IL</td>
<td>dB</td>
<td>-</td>
<td>1.52</td>
<td>2.5</td>
</tr>
<tr>
<td>Amplitude ripple (314.70 ~ 315.30MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.4</td>
<td>1.2</td>
</tr>
<tr>
<td>VSWR (314.70 ~ 315.30MHz)</td>
<td>-</td>
<td>1.4</td>
<td>1.6</td>
<td></td>
</tr>
</tbody>
</table>

Attenuation (Reference level from IL dB)

<table>
<thead>
<tr>
<th></th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>270.0 ~ 286.0MHz</td>
<td>dB</td>
<td>55</td>
<td>65</td>
<td>-</td>
</tr>
<tr>
<td>293.0 ~ 293.9MHz</td>
<td>dB</td>
<td>53</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>304.0 ~ 304.6MHz</td>
<td>dB</td>
<td>48</td>
<td>60</td>
<td>-</td>
</tr>
<tr>
<td>325.4 ~ 326.0MHz</td>
<td>dB</td>
<td>24</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>336.1 ~ 337.0MHz</td>
<td>dB</td>
<td>36</td>
<td>52</td>
<td>-</td>
</tr>
<tr>
<td>357.5 ~ 358.7MHz</td>
<td>dB</td>
<td>50</td>
<td>60</td>
<td>-</td>
</tr>
</tbody>
</table>

Source impedance Z_S
Load impedance Z_L
Temperature coefficient ppm/k

Note 1: No matching network required for operation at 50Ω
Note 2: For SiO2 coating.

C. MEASUREMENT CIRCUIT:

```
HP Network analyzer

50Ω B

SAW Filter

E

50Ω

A,C,D,F
```
D. FREQUENCY CHARACTERISTIC:

**SAW Filter 315.0MHz**
Part No: MP07597
Model: TA0657C
Rev No: 1

**SAW Filter 315.0MHz, Part No: MP07597, Model: TA0657C, Rev No: 1**

---

**D. FREQUENCY CHARACTERISTIC:**

![Graph of frequency characteristic](image)
SAW Filter 315.0MHz
Model: TA0657C
Part No: MP07597
Rev No: 1

E. OUTLINE DRAWING:

B: Input
E: Output
A, C, D, F: Ground
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

SECTION A-A

SECTION B-B

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 260°+0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.