SAW Filter 1575.420MHz for GPS

Part No: MA04697

Model: TA1575GG

REV. NO.: 2

A. MAXIMUM RATING:
1. Input Power Level: 10 dBm
2. DC voltage: 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +100°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>1575.42</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL (dB)</td>
<td>-</td>
<td>2.6</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude ripple (p-p)</td>
<td>-</td>
<td>0.1</td>
<td>1.5</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1475.42 MHz (dB)</td>
<td>35.0</td>
<td>42.0</td>
<td>-</td>
</tr>
<tr>
<td>1535.42 MHz (dB)</td>
<td>30.0</td>
<td>44.0</td>
<td>-</td>
</tr>
<tr>
<td>1615.42 MHz (dB)</td>
<td>30.0</td>
<td>55.0</td>
<td>-</td>
</tr>
<tr>
<td>1675.42 MHz (dB)</td>
<td>40.0</td>
<td>48.0</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 1574.42 ~1576.42 MHz</td>
<td>-</td>
<td>1.5</td>
<td>2.5</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 1. No matching network required for operation at 50 Ω
C. Frequency Characteristics:

( wide band )
D. Reflection Functions:

S11 VSWR

S22 VSWR
E. MEASUREMENT CIRCUIT:

```
HP Network analyzer

50Ω ─ B

SAW Filter

A, C, D, F

50Ω ─ E
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F. OUTLINE DRAWING:

![Outline drawing of the SAW filter model TA1575GG](image-url)

#B: Input
#E: Output
#A, #C, #D, #F: Ground
□: Date code
Unit: mm
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION