SAW Filter 1586.0MHz
Part No: MP05267

Model: TA1586BB
Rev No: 1

A. MAXIMUM RATING:

1. Input Power Level: 20dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +70°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL 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>1586</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL (1565 ~ 1607MHz)</td>
<td>dB</td>
<td>-</td>
<td>1.2</td>
<td>3.8</td>
</tr>
<tr>
<td>Amplitude ripple (1565 ~ 1607 MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.9</td>
<td>2.5</td>
</tr>
<tr>
<td>VSWR (1565 ~ 1607MHz)</td>
<td></td>
<td>-</td>
<td>1.8</td>
<td>2.3</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 600MHz</td>
<td>dB</td>
<td>30</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>600 ~ 1500MHz</td>
<td>dB</td>
<td>27</td>
<td>37</td>
<td>-</td>
</tr>
<tr>
<td>1500 ~ 1530MHz</td>
<td>dB</td>
<td>20</td>
<td>38</td>
<td>-</td>
</tr>
<tr>
<td>1630 ~ 1675MHz</td>
<td>dB</td>
<td>20</td>
<td>41</td>
<td>-</td>
</tr>
<tr>
<td>1675 ~ 3000MHz</td>
<td>dB</td>
<td>30</td>
<td>31</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Zs</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Zl</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Circuit Diagram](image)
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D. OUTLINE DRAWING:

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

E. PCB FOOTPRINT:
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F. FREQUENCY CHARACTERISTICS:

1. Wideband response: (1 ~ 3000MHz)

2. Narrowband response: (span 200MHz)
3. VSWR (span200MHz)

![Graph showing VSWR data for the SAW Filter 1586.0MHz Model: TA1586BB Part No: MP05267 Rev No: 1. The graph includes data points such as 1.586GHz with a VSWR of 1.000, 1.666GHz with a VSWR of 1.000, and 1.688GHz with a VSWR of 1.000. The frequency range is from 1GHz to 2GHz with a span of 200MHz.](image-url)
G. PACKING:

1. Reel Dimension

(Reel Count: 7” = 1000; 13” = 3000)

2. Tape Dimension

SECTION A-A

SECTION B-B

DIMENSION = mm

Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph]

- Time (Sec): 0 to 360
- Temp (Deg C): 20 to 280

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