1575.420MHz SAW Filter

Part No: MA07466

Model: TA0440A

REV NO.: 3

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC voltage: 5 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</td>
<td>Fc (dB)</td>
<td>1575.42</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss (1574.42~1576.42 MHz) IL (dB)</td>
<td>-</td>
<td>2.9</td>
<td>4.0</td>
</tr>
<tr>
<td>Amplitude ripple (1574.42~1576.42 MHz) (dB)</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>1 ~ 890 MHz</td>
<td>(dB)</td>
<td>40</td>
<td>60</td>
</tr>
<tr>
<td>890 ~ 1475 MHz</td>
<td>(dB)</td>
<td>36</td>
<td>55</td>
</tr>
<tr>
<td>1475.42 MHz</td>
<td>(dB)</td>
<td>36</td>
<td>50</td>
</tr>
<tr>
<td>1535.42 MHz</td>
<td>(dB)</td>
<td>29</td>
<td>50</td>
</tr>
<tr>
<td>1615.42 MHz</td>
<td>(dB)</td>
<td>25</td>
<td>42</td>
</tr>
<tr>
<td>1675.42 MHz</td>
<td>(dB)</td>
<td>40</td>
<td>55</td>
</tr>
<tr>
<td>1700 ~ 3000 MHz</td>
<td>(dB)</td>
<td>25</td>
<td>38</td>
</tr>
<tr>
<td>Input/Output VSWR (1574.42~1576.42 MHz)</td>
<td>-</td>
<td>1.55</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>

Note1. The standard definitions is in JIS C 6703

C. MEASUREMENT CIRCUIT:

HP Network analyzer

![Diagram of measurement circuit](image)
1575.420MHz SAW Filter
Model: TA0440A
Part No: MA07466
REV NO.: 3

D. OUTLINE DRAWING:

E: Output
A, C, D, F: Ground

E. PCB FOOTPRINT:
F. FREQUENCY CHARACTERISTICS:

Transfer function

\[ \text{Frequency Characteristics:} \]

![Graph 1](image1)

![Graph 2](image2)
1575.420MHz SAW Filter
Model: TA0440A
Part No: MA07466
REV NO.: 3

Reflection Functions:

S11

S22
1575.420MHz SAW Filter
Model: TA0440A
Part No: MA07466
REV NO.: 3

G. PACKING:
1. REEL DIMENSION

2. TAPE DIMENSION