SAW Filter 472.2MHz
Part No: MP03190
Model: TB0576A
Rev No: 1

A. MAXIMUM RATING:

1. Operating Temperature: -40°C to +85°C
2. Storage Temperature: -40°C to +85°C
3. Maximum Input Power: 10dBm

B. ELECTRICAL CHARACTERISTICS:

Ambient Temperature: 25°C

<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>472.2</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc dB</td>
<td>-</td>
<td>12.6</td>
<td>13.5</td>
</tr>
<tr>
<td>Bandwidth at -1.0dB MHz</td>
<td>27.0</td>
<td>30.3</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (Fc ± 11.5MHz) dB</td>
<td>-</td>
<td>0.4</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 11.5MHz) nS</td>
<td>-</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>Attenuation (Reference level from minimum Insertion loss)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>300MHz ~ 447MHz dB</td>
<td>40</td>
<td>45</td>
<td>-</td>
</tr>
<tr>
<td>499MHz ~ 650MHz dB</td>
<td>35</td>
<td>40</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient ppm/°C</td>
<td>-</td>
<td>-93</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

Fig. 1: Horizontal: 20MHz/Div Vertical: 10dB/Div

2. Passband Ripple

Fig. 2: Horizontal: 5MHz/Div Vertical: 1dB/Div
3. Group Delay Ripple

![Graph](image)

Fig.3. Horizontal: 5MHz/Div Vertical: 100nS/Div

D. MEASUREMENT CIRCUIT:

Single ended input 50 ohm to Single ended Output 50Ω

![Circuit Diagram](image)

Note: The matching structure will change according to different test fixture.
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E. OUTLINE DRAWING:

J: RF Input
D: RF Output
Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

2. TAPE DIMENSION

UNIT: mm
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph](image-url)