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>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>512.2</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss at Fc</td>
<td>dB</td>
<td>-</td>
<td>11.8</td>
<td>13.5</td>
</tr>
<tr>
<td>Bandwidth at –1.0dB</td>
<td>MHz</td>
<td>27.0</td>
<td>30.0</td>
<td>-</td>
</tr>
<tr>
<td>Amplitude Ripple (Fc ± 11.5MHz)</td>
<td>dB</td>
<td>-</td>
<td>0.6</td>
<td>1.0</td>
</tr>
<tr>
<td>Group Delay Ripple (Fc ± 11.5MHz)</td>
<td>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>
<td></td>
</tr>
<tr>
<td>300 MHz ~ 487.5MHz</td>
<td>dB</td>
<td>40</td>
<td>48</td>
<td>-</td>
</tr>
<tr>
<td>540 MHz ~ 650MHz</td>
<td>dB</td>
<td>36</td>
<td>42</td>
<td>-</td>
</tr>
<tr>
<td>Temp Coefficient</td>
<td>ppm/°C</td>
<td>-</td>
<td>-93</td>
<td>-</td>
</tr>
</tbody>
</table>
C. FREQUENCY CHARACTERISTICS:

1. S21 Response

![Graph of S21 Response](image)

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

2. Passband Ripple

![Graph of Passband Ripple](image)

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

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

D. MEASUREMENT CIRCUIT:

1. Single ended input 50 ohm to Single ended Output 50 ohm

Note: The matching structure will change according to different test fixture.
SAW Filter 512.20MHz
Part No: MP03885

Model: TB0577A
Rev No: 1

E. OUTLINE DRAWING:

- J: RF Input
- Pin D: RF Output

Unit: mm

F. PCB FOOTPRINT:
G. PACKING:

1. REEL DIMENSION

![Diagram of Reel Dimensions]

2. TAPE DIMENSION

![Diagram of Tape Dimensions]

SECTION A-A
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph](image_url)