SAW Filter 314.350MHz  
Part No: MP06177  
Rev No: 1

**A. MAXIMUM RATING:**

*Electrostatic Sensitive Device*

1. Input Power Level: 10dBm
2. DC voltage: 6V
3. Operating Temperature: -40°C to 85°C
4. Storage Temperature: -40°C to +85°C

**B. 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>314.35</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 314.05 ~ 314.65MHz IL</td>
<td>dB</td>
<td>-</td>
<td>1.6</td>
<td>2.5</td>
</tr>
<tr>
<td>Amplitude ripple 314.05 ~ 314.65MHz</td>
<td>dB</td>
<td>-</td>
<td>0.1</td>
<td>1.2</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0dB)</td>
<td>dB</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>270.00 ~ 286.00MHz</td>
<td></td>
<td>55</td>
<td>63</td>
<td>-</td>
</tr>
<tr>
<td>292.65 ~ 293.25MHz</td>
<td></td>
<td>53</td>
<td>79</td>
<td>-</td>
</tr>
<tr>
<td>303.35 ~ 303.95MHz</td>
<td></td>
<td>48</td>
<td>67</td>
<td>-</td>
</tr>
<tr>
<td>324.75 ~ 325.35MHz</td>
<td></td>
<td>23</td>
<td>30</td>
<td>-</td>
</tr>
<tr>
<td>335.45 ~ 336.05MHz</td>
<td></td>
<td>42</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>357.50 ~ 358.70MHz</td>
<td></td>
<td>50</td>
<td>66</td>
<td>-</td>
</tr>
<tr>
<td>Source impedance Z_S</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_L</td>
<td>Ω</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

Note 1. No matching network required for operation at 50Ω.
Note 2. For SiO₂ coating.

**C. MEASUREMENT CIRCUIT:**

![Measurement Circuit Diagram]

HP Network analyzer

50Ω B E

A, C, D, F

50Ω
D. FREQUENCY CHARACTERISTICS:

Transfer function:

![Graph of frequency characteristics](image-url)
SAW Filter 314.350MHz  
Model: TA1588A  
Part No: MP06177  
Rev No: 1

E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT:
G. PACKING:

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)

2. Tape Dimension

---

SECTION A-A
SECTION B-B
DIMENSION : mm
Direction of Feed
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph](image-url)