SAW Filter 916.450MHz  
Model: TA1727A  
Part No: MP06994  
Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC voltage: 5V
3. Operating Temperature: -30°C to +85°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>916.45</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss 914.45 ~ 918.45MHz IL</td>
<td>dB</td>
<td>-</td>
<td>2.7</td>
<td>3.5</td>
</tr>
<tr>
<td>Amplitude ripple 914.45 ~ 918.45MHz</td>
<td>dB</td>
<td>-</td>
<td>0.3</td>
<td>1.0</td>
</tr>
<tr>
<td>VSWR 914.45 ~ 918.45MHz</td>
<td>-</td>
<td>-</td>
<td>1.5</td>
<td>2.0</td>
</tr>
</tbody>
</table>

Absolute Attenuation

<table>
<thead>
<tr>
<th>Frequency Range</th>
<th>Unit</th>
<th>Min.</th>
<th>Typ.</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>D.C. ~ 600MHz</td>
<td>dB</td>
<td>50</td>
<td>57</td>
<td>-</td>
</tr>
<tr>
<td>600 ~ 840MHz</td>
<td>dB</td>
<td>40</td>
<td>51</td>
<td>-</td>
</tr>
<tr>
<td>869 ~ 894MHz</td>
<td>dB</td>
<td>35</td>
<td>46</td>
<td>-</td>
</tr>
<tr>
<td>930 ~ 937MHz</td>
<td>dB</td>
<td>8</td>
<td>13</td>
<td>-</td>
</tr>
<tr>
<td>970 ~ 1500MHz</td>
<td>dB</td>
<td>40</td>
<td>47</td>
<td>-</td>
</tr>
<tr>
<td>1500 ~ 3000MHz</td>
<td>dB</td>
<td>25</td>
<td>32</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>

Note 1. No matching network required for operation at 50 Ω
C. FREQUENCY CHARACTERISTICS:

[Graph showing frequency characteristics with data points and measurements.]

TA1727A v1
Reflections Functions

S11

Graph showing reflections functions for SAW Filter 916.450MHz Model: TA1727A Part No: MP06994 Rev No: 1.
SAW Filter 916.450MHz
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SAW Filter 916.450MHz
Part No: MP06994
Rev No: 1

S22

[Graph and diagrams]
Wideband

D. MEASUREMENT CIRCUIT:

HP Network analyzer

50Ω

SAW Filter

A,C,D,F

50Ω

B

E
E. OUTLINE DRAWING:

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

F. PCB FOOTPRINT:
G. **PACKING:**

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

2. Tape Dimension
H. RECOMMENDED REFLOW PROFILE:

![Reflow Profile Graph](image)