## RF SAW FILTER

**RSF-925.000-6000-3030-TR**

### Parameters

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency (Fc)</td>
<td>925.000</td>
<td>MHz</td>
</tr>
<tr>
<td>Bandwidth</td>
<td>922.000 to 928.000</td>
<td>MHz</td>
</tr>
<tr>
<td>Insertion Loss in BW, Typ / Max</td>
<td>3.2 / 3.5</td>
<td>dB</td>
</tr>
<tr>
<td>Amplitude Ripple in BW, Typ / Max</td>
<td>0.4 / 1.0</td>
<td>dB</td>
</tr>
<tr>
<td>VSWR in BW, Typ / Max</td>
<td>1.6 / 2.0</td>
<td>-</td>
</tr>
<tr>
<td>Absolute Attenuation, Typ / Min</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC ~ 700 MHz</td>
<td>40 / 60</td>
<td>dB</td>
</tr>
<tr>
<td>700 ~ 894 MHz</td>
<td>45 / 54</td>
<td>dB</td>
</tr>
<tr>
<td>894 ~ 915 MHz</td>
<td>35 / 42</td>
<td>dB</td>
</tr>
<tr>
<td>935 ~ 950 MHz</td>
<td>15 / 28</td>
<td>dB</td>
</tr>
<tr>
<td>950 ~ 2000 MHz</td>
<td>45 / 50</td>
<td>dB</td>
</tr>
<tr>
<td>2000 ~ 3000 MHz</td>
<td>40 / 55</td>
<td>dB</td>
</tr>
<tr>
<td>In/Out Impedance</td>
<td>50</td>
<td>Ω</td>
</tr>
<tr>
<td>Input Power, Max</td>
<td>+15</td>
<td>dBm</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
</tbody>
</table>

### Frequency Characteristics

![Frequency Characteristics Graph](image-url)
### Reflow profile

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Min Preheat</td>
<td>$T_{SMIN}$ 150°C</td>
</tr>
<tr>
<td>Temperature Max Preheat</td>
<td>$T_{SMAX}$ 200°C</td>
</tr>
<tr>
<td>Time ($T_{SMIN}$ to $T_{SMAX}$)</td>
<td>$t_T$ 60-180 sec.</td>
</tr>
<tr>
<td>Temperature</td>
<td>$T_L$ 217°C</td>
</tr>
<tr>
<td>Peak Temperature</td>
<td>$T_P$ 260°C</td>
</tr>
<tr>
<td>Ramp-up rate</td>
<td>$R_{UP}$ 3°C/sec max.</td>
</tr>
<tr>
<td>Ramp-down rate</td>
<td>$R_{DOWN}$ 6°C/sec max.</td>
</tr>
<tr>
<td>Time within 5°C of Peak Temperature</td>
<td>$tᵢ$ 10 sec.</td>
</tr>
<tr>
<td>Time (25°C) to Peak Temperature</td>
<td>$t_{[25°C]}$ to Peak 480 sec.</td>
</tr>
<tr>
<td>Time</td>
<td>$t_L$ 60-150 sec.</td>
</tr>
</tbody>
</table>

### Environmental

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOISTURE SENSITIVITY LEVEL</td>
<td>1</td>
</tr>
<tr>
<td>REACH – SVHC</td>
<td>Compliant</td>
</tr>
<tr>
<td>RoHS 2</td>
<td>6/6</td>
</tr>
</tbody>
</table>

April 2016