### RF SAW FILTER
**RSF-868.000-1200-5050-TR-NS1**

<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency (F&lt;sub&gt;c&lt;/sub&gt;)</td>
<td>868.000</td>
<td>MHz</td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>1.200</td>
<td>MHz</td>
</tr>
<tr>
<td>Insertion Loss in BW, typ/max</td>
<td>4.5/6.0</td>
<td>dB</td>
</tr>
<tr>
<td>Passband Ripple, max</td>
<td>±1.0</td>
<td>dB</td>
</tr>
</tbody>
</table>

#### Temperature Stability
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turnover Temperature, max</td>
<td>40</td>
<td>°C</td>
</tr>
<tr>
<td>Turnover Frequency</td>
<td>868.000</td>
<td>MHz</td>
</tr>
<tr>
<td>Temperature Coefficient</td>
<td>0.032</td>
<td>ppm/°C²</td>
</tr>
</tbody>
</table>

#### Frequency Aging, first year, max
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>±10</td>
<td>ppm</td>
</tr>
</tbody>
</table>

#### Attenuation
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>846.600 MHz min/typ</td>
<td>30/40</td>
<td>dB</td>
</tr>
<tr>
<td>857.300 MHz min/typ</td>
<td>15/30</td>
<td>dB</td>
</tr>
<tr>
<td>Ultimate, typ</td>
<td>60</td>
<td>dB</td>
</tr>
</tbody>
</table>

#### DC Voltage
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30</td>
<td>V</td>
</tr>
</tbody>
</table>

#### RF Power, max
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+13</td>
<td>dBm</td>
</tr>
</tbody>
</table>

#### Operation Temperature
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
</tbody>
</table>

#### Storage Temperature
<table>
<thead>
<tr>
<th>Items</th>
<th>Specification</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>-40 to +85</td>
<td>°C</td>
</tr>
</tbody>
</table>

#### Dimension

![Dimension Diagram](image)

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REFLOW PROFILE

![Reflow Profile Diagram]

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature Min Preheat</td>
<td>$T_{SMIN}$</td>
</tr>
<tr>
<td>Temperature Max Preheat</td>
<td>$T_{SMAX}$</td>
</tr>
<tr>
<td>Time ($T_{SMIN}$ to $T_{SMAX}$)</td>
<td>$t_3$</td>
</tr>
<tr>
<td>Temperature</td>
<td>$T_L$</td>
</tr>
<tr>
<td>Peak Temperature</td>
<td>$T_P$</td>
</tr>
<tr>
<td>Ramp-up rate</td>
<td>$R_{UP}$</td>
</tr>
<tr>
<td>Ramp-down rate</td>
<td>$R_{DOWN}$</td>
</tr>
<tr>
<td>Time within 5°C of Peak Temperature</td>
<td>$t_0$</td>
</tr>
<tr>
<td>Time $t_{25^\circ C}$ to Peak Temperature</td>
<td>$t_2$</td>
</tr>
<tr>
<td>Time</td>
<td>$t_L$</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