DESCRIPTION

- 110.592 MHz IF SAW Filter with a 1.44 MHz typical 3dB bandwidth.
- 5.0 X 7.0 mm SMD Package.
- RoHS compliant.

TYPICAL PERFORMANCE
110.592 MHz SAW Filter
1.44 MHz Bandwidth
Part Number SF0111BA02639S

Passband Horizontal: 0.5MHz/Div, Vertical: 200nS/Div

### SPECIFICATION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Typ</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center Frequency (F&lt;sub&gt;c&lt;/sub&gt;)</td>
<td>110.592 MHz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>-</td>
<td>8.6</td>
<td>10</td>
<td>dB</td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>1.152</td>
<td>1.44</td>
<td>-</td>
<td>MHz</td>
</tr>
<tr>
<td>Group Delay Variation F&lt;sub&gt;c&lt;/sub&gt;±0.576MHz</td>
<td>-</td>
<td>150</td>
<td>200</td>
<td>nsec</td>
</tr>
<tr>
<td>Rejection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC to F&lt;sub&gt;c&lt;/sub&gt;-3.4MHz</td>
<td>38</td>
<td>42</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>F&lt;sub&gt;c&lt;/sub&gt;-3.4MHz to F&lt;sub&gt;c&lt;/sub&gt;-1.728MHz</td>
<td>28</td>
<td>42</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>F&lt;sub&gt;c&lt;/sub&gt;+1.728MHz to F&lt;sub&gt;c&lt;/sub&gt;+3.4MHz</td>
<td>28</td>
<td>34</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>F&lt;sub&gt;c&lt;/sub&gt;+3.4MHz to 200MHz</td>
<td>38</td>
<td>42</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Terminating Source Impedance:</td>
<td>Single ended 50 ohm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terminating Load Impedance:</td>
<td>Single ended 50 ohm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ambient Temperature:</td>
<td>25</td>
<td></td>
<td></td>
<td>°C</td>
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</tbody>
</table>

### MAXIMUM RATINGS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min</th>
<th>Max</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage Temperature Range</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-40</td>
<td>+85</td>
<td>°C</td>
</tr>
<tr>
<td>Input Power Level</td>
<td></td>
<td>10</td>
<td>dBm</td>
</tr>
</tbody>
</table>
MATCHING CIRCUIT

Zs & ZL = 50 OHM
L1 = 56nH   L2 = 220nH+22nH
L3 = 270nH+15nH   L4 = 56nH

PC BOARD FOOTPRINT

10x 1.4
1.63
1.27 TYP
110.592 MHz SAW Filter
1.44 MHz Bandwidth
Part Number SF0111BA02639S

PACKAGE OUTLINE

±0.2
7.00
1.82 MAX
±0.2
5.00
1.00 X10
0.60 X10
2.54
1.27 TYP

Pad Configuration:
RF Input  9
RF Input Ground  10
RF Output  4
RF Output Ground  5
Ground  1,2,3,6,7,8

NOTE:
1. DIMENSIONS ARE IN MM.

MARKING

All specifications are believed to be accurate and reliable. However, Spectrum Microwave reserves the right to make changes without notice.
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