DESCRIPTION

- 915 MHz SAW filter with 26 MHz bandwidth.
- 3 x 3 mm ceramic LCC package with 6 pads.
- RoHS compliant.

TYPICAL PERFORMANCE

Center = 915 MHz, 20 MHz/div (26.8 kHz incr)

S11 (815-1015 MHz)  

S22 (815-1015 MHz)
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_c) )</td>
<td>-</td>
<td>915.0</td>
<td>-</td>
<td>MHz</td>
</tr>
<tr>
<td>Bandwidth (3dB)</td>
<td>26</td>
<td>34</td>
<td>-</td>
<td>MHz</td>
</tr>
<tr>
<td>Insertion Loss</td>
<td>-</td>
<td>2.8</td>
<td>3.3</td>
<td>dB</td>
</tr>
<tr>
<td>Passband Amplitude Ripple</td>
<td>-</td>
<td>1.1</td>
<td>1.5</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 10-800 MHz</td>
<td>50</td>
<td>55</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 800-845 MHz</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 845-880 MHz</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 947-992 MHz</td>
<td>15</td>
<td>18</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 992-1020 MHz</td>
<td>35</td>
<td>40</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection, 1020-1200 MHz</td>
<td>45</td>
<td>50</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>-30</td>
<td></td>
<td>ppm/°K</td>
<td></td>
</tr>
<tr>
<td>Source and Load Impedance</td>
<td>50 Ω // 0 nF</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Notes: 1. Fixed reference point.
2. Evaluated over 902 to 928 MHz.

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>-10</td>
<td>70</td>
<td>°C</td>
</tr>
<tr>
<td>Input Power Level</td>
<td>-</td>
<td>10</td>
<td>dBm</td>
</tr>
<tr>
<td>DC Voltage</td>
<td>-</td>
<td>10</td>
<td>Volts</td>
</tr>
</tbody>
</table>

MATCHING CIRCUIT

```
Input
50 Ω
Single ended

GND

All other pads

2

GND

Output
50 Ω
Single ended
```

Notes:
- External matching components are not required.
- Device is intended to operate in a 50 Ω single ended system.
915 MHz SAW Filter
26 MHz Bandwidth
Part Number: SF0915BA02502S

PACKAGE OUTLINE

Units: mm
Typical tolerances are ±0.15 mm except where indicated.

Pad Configuration:
Input: 2
Output: 5
Ground: All other pads

Package Material:
Body: Al₂O₃ ceramic
Lid: Kovar, Ni plated
Terminations: Au plating 1 μm min, over a 1.3-8.9 μm Ni plating

SUGGESTED FOOTPRINT

MARKING

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