DESCRIPTION

- 836.5 MHz SAW filter
- 3 x 3 mm LCC package.
- RoHS compliant.

A. MAXIMUM RATING
1. Input Power Level: 10 dBm
2. DC voltage: 0 V
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>Min.</th>
<th>Typical</th>
<th>Max.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Center frequency F_c (dB)</td>
<td>-</td>
<td>836.5</td>
<td>-</td>
</tr>
<tr>
<td>Insertion loss IL (dB) within 824 ~ 849 MHz</td>
<td>-</td>
<td>2.1</td>
<td>3.0</td>
</tr>
<tr>
<td>Amplitude ripple (p-p) within 824 ~ 849 MHz (dB)</td>
<td>-</td>
<td>1.2</td>
<td>2.0</td>
</tr>
<tr>
<td>Attenuation (Reference level from 0 dB)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D.C. ~ 800 MHz (dB)</td>
<td>23.0</td>
<td>26.0</td>
<td>-</td>
</tr>
<tr>
<td>869 ~ 894 MHz (dB)</td>
<td>29.0</td>
<td>32.0</td>
<td>-</td>
</tr>
<tr>
<td>978 ~ 1006 MHz (dB)</td>
<td>25.0</td>
<td>28.0</td>
<td>-</td>
</tr>
<tr>
<td>1050 ~ 2500 MHz (dB)</td>
<td>15.0</td>
<td>18.0</td>
<td>-</td>
</tr>
<tr>
<td>VSWR within 824 ~ 849 MHz</td>
<td>-</td>
<td>1.8</td>
<td>2.3</td>
</tr>
<tr>
<td>Source impedance Z_s (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
<tr>
<td>Load impedance Z_L (Ω)</td>
<td>-</td>
<td>50</td>
<td>-</td>
</tr>
</tbody>
</table>

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

![Graph of Frequency Characteristics]

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www.SpectrumMicrowave.com
D. REFLECTION FUNCTIONS

S11

S22
E. MEASUREMENT CIRCUIT

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HP Network analyzer

50Ω 2 50Ω
2 5
1,3,4,6
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F. OUTLINE DRAWING

PACKAGE OUTLINE

SUGGESTED FOOTPRINT

Units: mm

Tolerances are ±0.15 mm except where indicated and for the overall length and width, which are nominal values.

Pad Configuration:

- Input: 2
- Output: 5
- Ground: All other pads