DESCRIPTION

- 44 MHz SAW bandpass filter with 6 MHz bandwidth.
- 35 X 20 mm 24 pin DIP package.
- RoHS compliant.

TYPICAL PERFORMANCE
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 (Fc)¹</td>
<td>43.8</td>
<td>44.0</td>
<td>44.2</td>
<td>MHz</td>
</tr>
<tr>
<td>Insertion Loss ²</td>
<td>-</td>
<td>21.5</td>
<td>23.0</td>
<td>dB</td>
</tr>
<tr>
<td>1 dB Bandwidth</td>
<td>5.5</td>
<td>5.7</td>
<td>-</td>
<td>MHz</td>
</tr>
<tr>
<td>3 dB Bandwidth</td>
<td>6.0</td>
<td>6.1</td>
<td>-</td>
<td>MHz</td>
</tr>
<tr>
<td>38 dB Bandwidth</td>
<td>-</td>
<td>7.6</td>
<td>8.0</td>
<td>MHz</td>
</tr>
<tr>
<td>Passband Amplitude Ripple ³</td>
<td>-</td>
<td>0.4</td>
<td>0.6</td>
<td>dB</td>
</tr>
<tr>
<td>Passband Phase Ripple ³</td>
<td>-</td>
<td>1.5</td>
<td>3.0</td>
<td>deg p-p</td>
</tr>
<tr>
<td>Passband GD Ripple ³</td>
<td>-</td>
<td>50</td>
<td>80</td>
<td>ns</td>
</tr>
<tr>
<td>Stopband Rejection (10 to 39 MHz)³</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Stopband Rejection (49 to 80 MHz)³</td>
<td>40</td>
<td>45</td>
<td>-</td>
<td>dB</td>
</tr>
<tr>
<td>Absolute Delay</td>
<td>-</td>
<td>2.08</td>
<td>-</td>
<td>us</td>
</tr>
<tr>
<td>Passband Group Delay Ripple ²</td>
<td>-</td>
<td>40</td>
<td>60</td>
<td>ns p-p</td>
</tr>
<tr>
<td>Source and Load Impedance</td>
<td>50</td>
<td></td>
<td></td>
<td>ohms</td>
</tr>
<tr>
<td>Temperature Coefficient of Frequency</td>
<td>-72</td>
<td></td>
<td></td>
<td>ppm/°C</td>
</tr>
<tr>
<td>Ambient Temperature</td>
<td>25</td>
<td></td>
<td></td>
<td>°C</td>
</tr>
</tbody>
</table>

Notes:  
1. Mean value of the 3 dB band edge frequencies.  
2. Defined at 44 MHz.  
3. Dependent upon PC board layout.

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>Input Power Level</td>
<td>-</td>
<td>13</td>
<td>dBm</td>
</tr>
</tbody>
</table>

MATCHING CIRCUIT

```
14                  2
15                  3
```

Note: Matching components are not required.
PACKAGE OUTLINE

Units: mm

Tolerances are ±0.15 mm except where indicated.

Pin Configuration:
Input: 14
Input return: 15
Output: 2
Output return: 3
Ground: 1, 4, 16

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

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