FEATURES:
► Low Conversion Loss
► Good Harmonic & Sub-Harmonic Rejection
► Small Size, Surface Mount
► Lead Free REL-PRO® Technology

SPECIFICATIONS (Rev. A 04/08/09)

<table>
<thead>
<tr>
<th>Frequency (MHz)</th>
<th>Input</th>
<th>500 - 2000</th>
<th>Output</th>
<th>1000 - 4000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Power (dBm)</td>
<td>Min.</td>
<td>+10</td>
<td>Max.</td>
<td>+16</td>
</tr>
<tr>
<td>Conversion Loss (dB)</td>
<td>Typ.</td>
<td>12.0</td>
<td>Max.</td>
<td>17.0</td>
</tr>
<tr>
<td>Harmonic Suppression (dB)</td>
<td>F1</td>
<td>15.0</td>
<td>Min.</td>
<td>10.0</td>
</tr>
<tr>
<td></td>
<td>F3</td>
<td>20.0</td>
<td></td>
<td>15.0</td>
</tr>
<tr>
<td>Output Impedance</td>
<td>50 Ohms (Nom.)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td>-20 to +70 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Package # | 133 |

<table>
<thead>
<tr>
<th>Port Configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
</tr>
<tr>
<td>1</td>
</tr>
</tbody>
</table>
PERFORMANCE PLOTS

- F1 Suppression (dBc) vs. Frequency (MHz)
  - Input @ +10 dBm

- F4 Suppression (dBc) vs. Frequency (MHz)
  - Input @ +10 dBm
FREQUENCY DOUBLER
SURFACE MOUNT MODEL: SMX-C9
WIDE BANDWIDTH
500 - 2000 MHz

PERFORMANCE PLOTS

Input @ +10 dBm

Conversion Loss (dB)

Frequency (MHz)

-20
-18
-16
-14
-12
-10
-8
-6
-4
-2
0

1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750 4000

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201 McLean Boulevard • Paterson, New Jersey 07504 • Tel: (973) 881-8800 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com