VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO80210-10

WIDE BANDWIDTH

800 - 2100 MHz

FEATURES:
► Exceptional Phase Noise Performance
► Small Size, Surface Mount
► Lead Free Patented REL-PRO® Technology

SPECIFICATIONS (Rev. C 07/03/07)

Frequency Range: 800 - 2100 MHz
Tuning Voltage: See table below.
Bias Voltage: +10 VDC @ 35 mA (Max)
Output Power: +6 dBm (Min)
Tuning Sensitivity: 45 - 95 MHz/V (Typ)
Output Impedance: 50 Ohms (Nom)
Harmonic Suppression: 15 dB (Typ)
Frequency Pulling: 5 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing: 4 MHz/V (Typ)
Phase Noise @ 10 kHz: -100 dBc/Hz (Typ)
Operating Temperature Range: -40 to +85 °C

Guaranteed Tuning Specifications

<table>
<thead>
<tr>
<th>Tuning Voltage (V)</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>800 (Max)</td>
</tr>
<tr>
<td>5</td>
<td>900 (Min)</td>
</tr>
<tr>
<td>8</td>
<td>1150 (Min)</td>
</tr>
<tr>
<td>12</td>
<td>1450 (Min)</td>
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<td>15</td>
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</tr>
<tr>
<td>24</td>
<td>2100 (Min)</td>
</tr>
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Phase Noise

-20 -10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

Offset Frequency (Hz)

Phase Noise (dBc/Hz)

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Offset Frequency (Hz)

Phase Noise (dBc/Hz)

- This product is manufactured under one or more of the following patents. Approved: 5,160,810; 5,122,621; 5,390,349; 5,416,449; 5,650,754; 5,625,625; 6,525,623; 6,850,575; 7,088,189; 7,180,381; 7,196,591; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,563,174; 7,580,693; 7,612,296; 2,524,751
- Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,533,623

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E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCMO80210-10

WIDE BANDWIDTH

800 - 2100 MHz

PERFORMANCE PLOTS

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(Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; EV31369834; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,589,885; 7,590,391; 7,603,870; 7,612,296; 2,524,751
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SURFACE MOUNT MODEL: DCMO80210-10

WIDE BANDWIDTH
800 - 2100 MHz

PERFORMANCE PLOTS

Tuning Sensitivity (MHz/V)

Control Voltage (Vdc)

+25°C  +85°C  -40°C

2nd Harmonic Suppression (dBc)

Control Voltage (Vdc)

+25°C  +85°C  -40°C

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