VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCR0128132-8

WIDE BANDWIDTH

1280 - 1320 MHz

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

SPECIFICATIONS (Rev. C 08/24/09)

Frequency 1280 - 1320 MHz
Tuning Voltage See table below.
Bias Voltage +8 VDC @ 20 mA (Max.)
Output Power -20 dBm (Min.)
Tuning Sensitivity 6 to 8 MHz/V (Typ.)
Output Impedance 50 Ohms (Nom.)
Harmonic Suppression 32 dB (Typ.)
Frequency Pulling 5 MHz (Max. @ 1.75:1 VSWR)
Frequency Pushing 2 MHz/V (Max.)
Tuning Port Capacitance 50 pF (Typ.)
Phase Noise @ 10 kHz -115 dBc/Hz (Typ.)
Operating Temperature Range -40 to +85 ºC

Guaranteed Tuning Specifications

<table>
<thead>
<tr>
<th>Tuning Voltage (V)</th>
<th>Frequency (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5</td>
<td>1280 (Max.)</td>
</tr>
<tr>
<td>10</td>
<td>1320 (Min.)</td>
</tr>
</tbody>
</table>

Absolute Maximum Ratings

<table>
<thead>
<tr>
<th>Storage Temp. Range</th>
<th>-55 to +125 ºC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bias Voltage</td>
<td>+10.5 V</td>
</tr>
<tr>
<td>Tuning Voltage</td>
<td>+16 V</td>
</tr>
<tr>
<td>DC Voltage Applied to RF Out</td>
<td>± 25 V</td>
</tr>
</tbody>
</table>

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; 5,805,431; 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; 2,533,623

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

[ 1 of 3 ]
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCR0128132-8
WIDE BANDWIDTH
1280 - 1320 MHz

PERFORMANCE PLOTS

Control Voltage (Vdc)

Frequency (MHz)

+25ºC  +85ºC  -40ºC

Output Power (dBm)

Control Voltage (Vdc)

+25ºC  +85ºC  -40ºC

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; 5,623,623; 6,850,576; 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; 2,524,751

Pending: 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,524,751
VOLTAGE CONTROLLED OSCILLATOR
SURFACE MOUNT MODEL: DCR0128132-8
WIDE BANDWIDTH
1280 - 1320 MHz

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; 6,282,822; 6,259,253; 6,852,673; 7,180,301; 7,262,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,580,693; 7,586,381; 7,605,670; 7,636,021; 2,533,623; 60/493075; 60/501371 & 60/501790; 60/527957 & 60/528670; 60/563481; 60/564173; 60/589090; 60/601823; 60/605791; 11/259766; 60/622485 & 60/710310; 10/937525/60/736901; 60/732787; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 2,563,174; 7,612,296; 2,524,751

Copyright © Synergy Microwave Corporation
201 McLean Boulevard • Paterson, New Jersey 07504 USA • Tel: (973) 881-8600 • Fax: (973) 881-8361
E-Mail: sales@synergymwave.com • World Wide Web: http://www.synergymwave.com

PERFORMANCE PLOTS