

VOLTAGE CONTROLLED OSCILLATOR

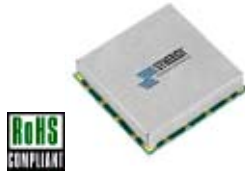
SURFACE MOUNT MODEL: DCRO128177-12

OPTIMIZED BANDWIDTH

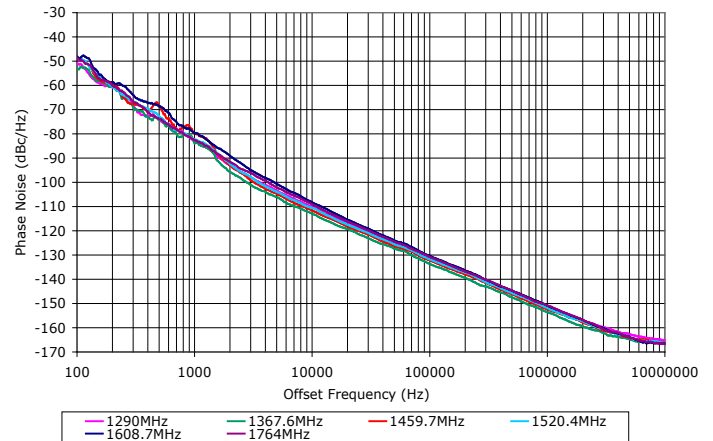
1280 - 1775 MHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



Phase Noise



SPECIFICATIONS (Rev. C 10/20/08)

| | |
|-----------------------------|----------------------------|
| Frequency | 1280 - 1775 MHz |
| Tuning Voltage (Full Band) | See table below. |
| Bias Voltage | +12 VDC @ 40 mA (Max.) |
| Output Power | +3 dBm (Min.) |
| Tuning Sensitivity | 12 - 38 MHz/V (Typ.) |
| Output Impedance | 50 Ohms (Nom.) |
| Harmonic Suppression | 15 dB (Typ.) |
| Frequency Pulling | 7 MHz (Typ. @ 1.75:1 VSWR) |
| Frequency Pushing | 5 MHz/V (Typ.) |
| Tuning Port Capacitance | 69 pF (Typ.) |
| Phase Noise @ 10 kHz | -112 dBc/Hz (Typ.) |
| Operating Temperature Range | -40 to +85 °C |

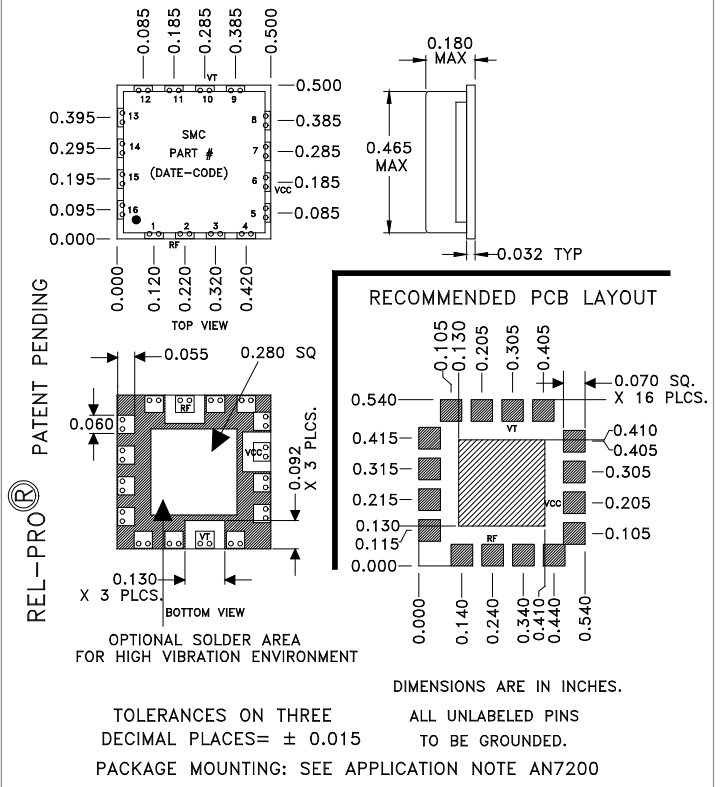
Guaranteed Tuning Specifications

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 1280 (Max) |
| 5 | 1325 (Min) |
| 8 | 1400 (Min) |
| 12 | 1525 (Min) |
| 15 | 1625 (Min) |
| 18 | 1700 (Min) |
| 24 | 1775 (Min) |

Absolute Maximum Ratings

| | |
|------------------------------|----------------|
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage | +12.5 V |
| Tuning Voltage | +26 V |
| DC Voltage Applied to RF Out | ± 25 V |

Package # 278LF



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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
 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

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201 McLean Boulevard • Paterson, New Jersey 07504 • Tel: (973) 881-8800 • Fax: (973) 881-8361
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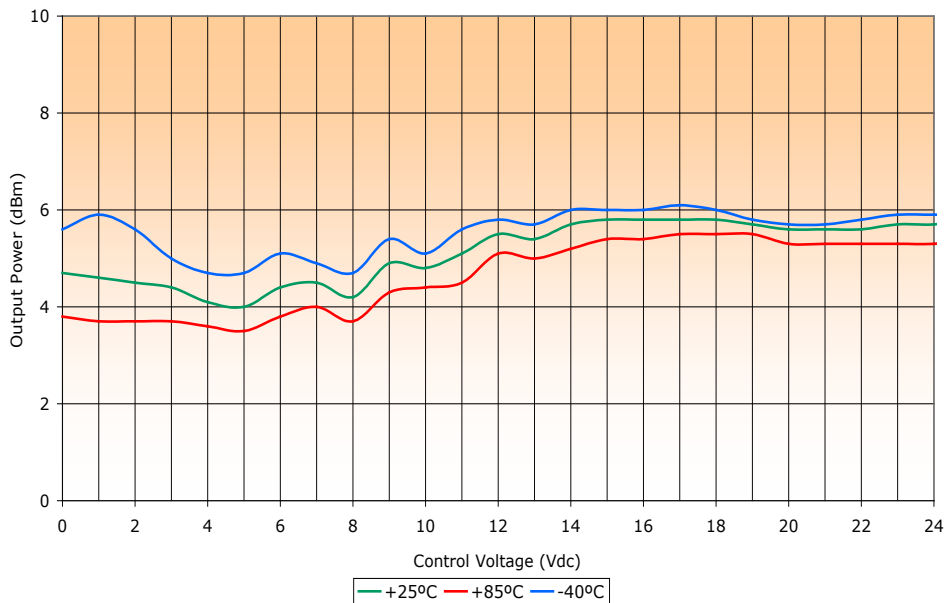
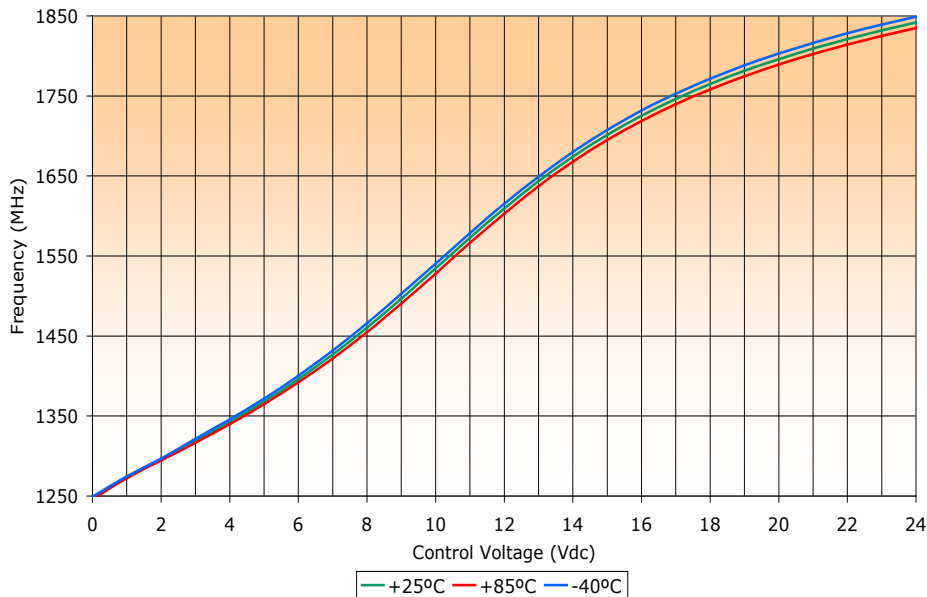


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCRO128177-12

OPTIMIZED BANDWIDTH

1280 - 1775 MHz

PERFORMANCE PLOTS



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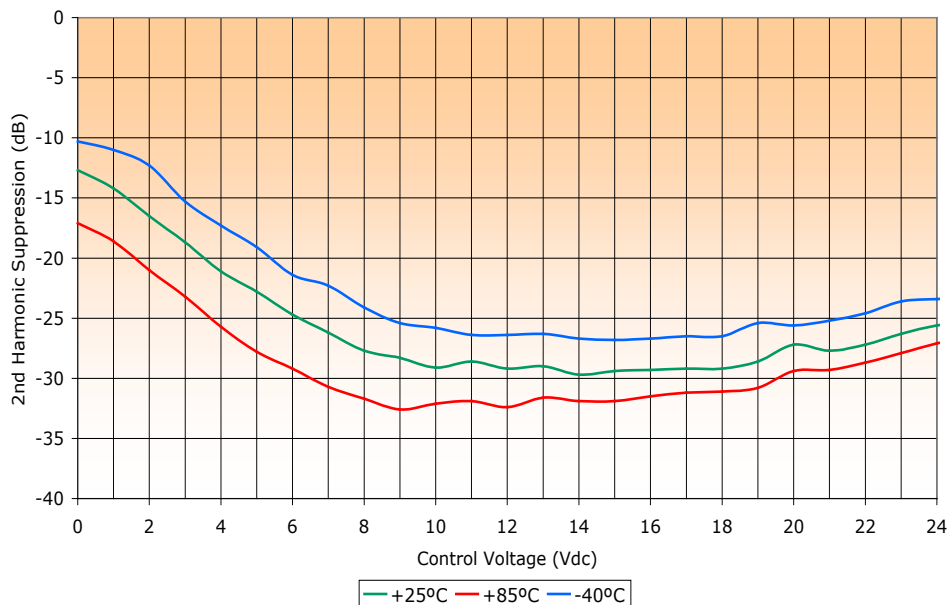
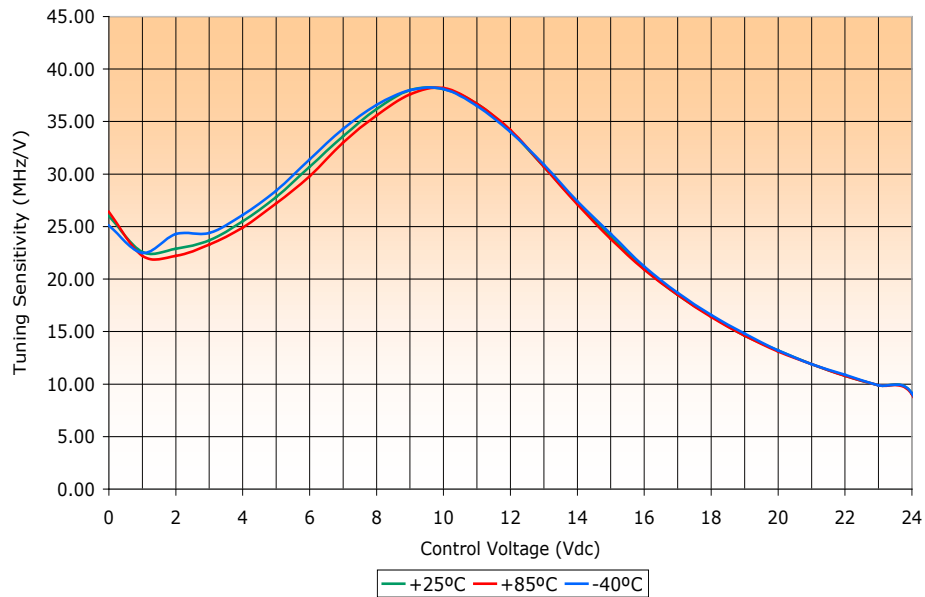
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