

# VOLTAGE CONTROLLED OSCILLATOR

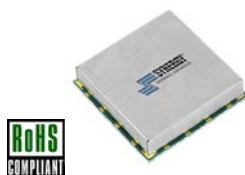
## SURFACE MOUNT MODEL: DCRO219250-8

OPTIMIZED BANDWIDTH

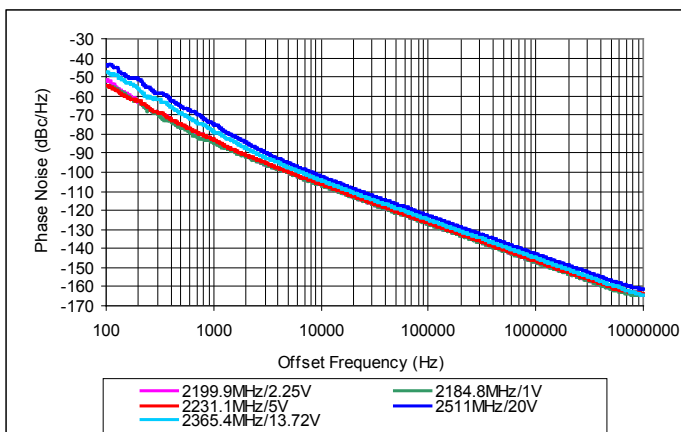
2190 - 2500 MHz

### FEATURES:

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



### Phase Noise



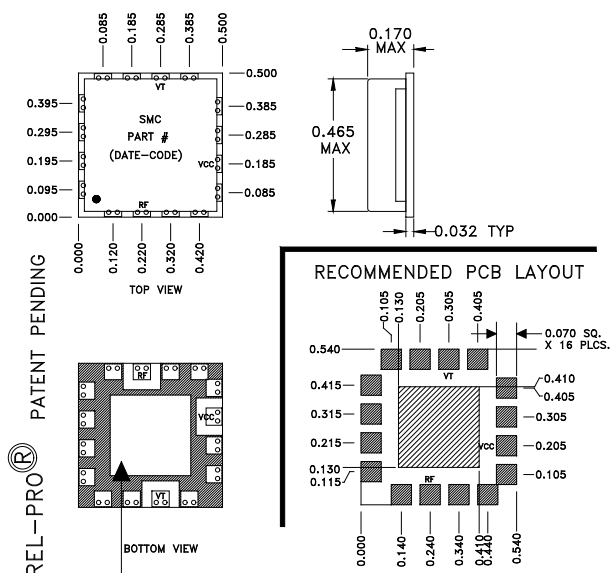
### SPECIFICATIONS (Rev. B 07/03/07)

|                             |                           |
|-----------------------------|---------------------------|
| Frequency                   | 2190 - 2500 MHz           |
| Tuning Voltage (Full Band)  | 0.5 - 24 VDC              |
| Bias Voltage                | +8 VDC @ <35 mA           |
| Output Power                | +2 dBm (Min)              |
| Tuning Sensitivity          | 10 - 25 MHz/V (Typ)       |
| Output Impedance            | 50 Ohms (Nom)             |
| Harmonic Suppression        | 10 dBc (Min)              |
| Frequency Pulling           | 2 MHz (Typ @ 1.75:1 VSWR) |
| Frequency Pushing           | 2 MHz/V (Typ)             |
| Phase Noise @ 10 kHz        | -106 dBc/Hz (Typ)         |
| Operating Temperature Range | -40 to +85 °C             |

### Guaranteed Tuning Specifications

| Tuning Voltage ( V ) | Frequency ( MHz ) |
|----------------------|-------------------|
| 0.5                  | 2190 (Max)        |
| 5                    | 2200 (Min)        |
| 8                    | 2240 (Min)        |
| 12                   | 2300 (Min)        |
| 15                   | 2340 (Min)        |
| 18                   | 2400 (Min)        |
| 24                   | 2500 (Min)        |

### Package # 278LF



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 | 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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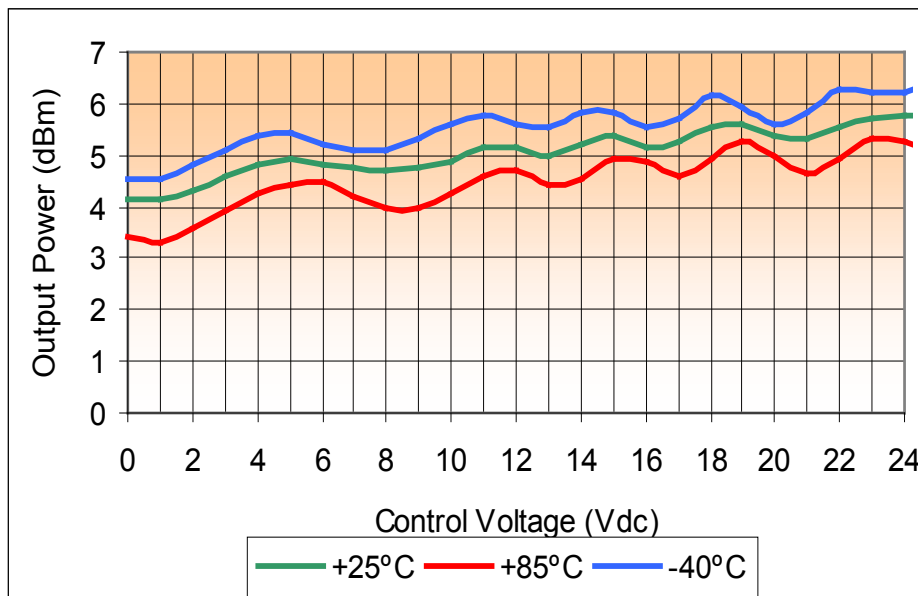
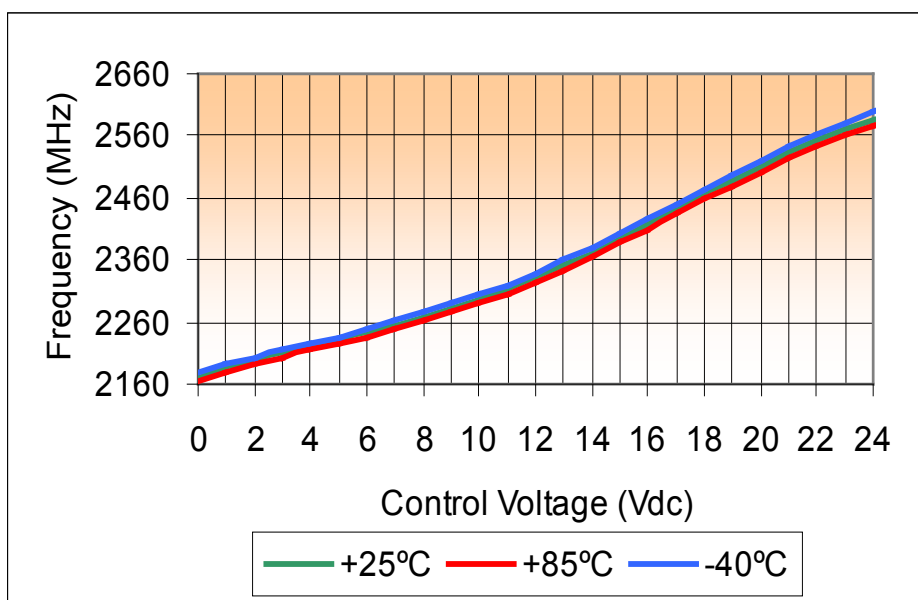
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PERFORMANCE PLOTS



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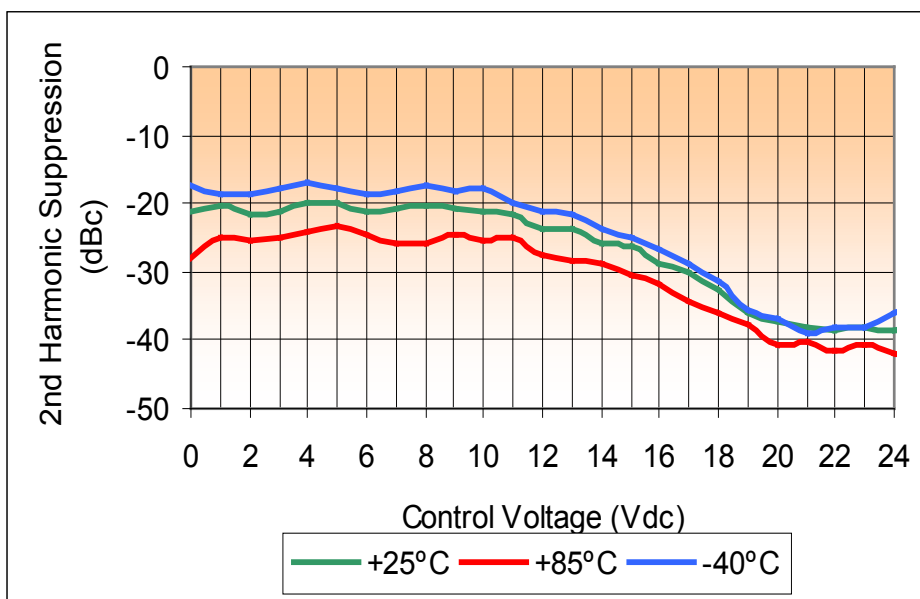
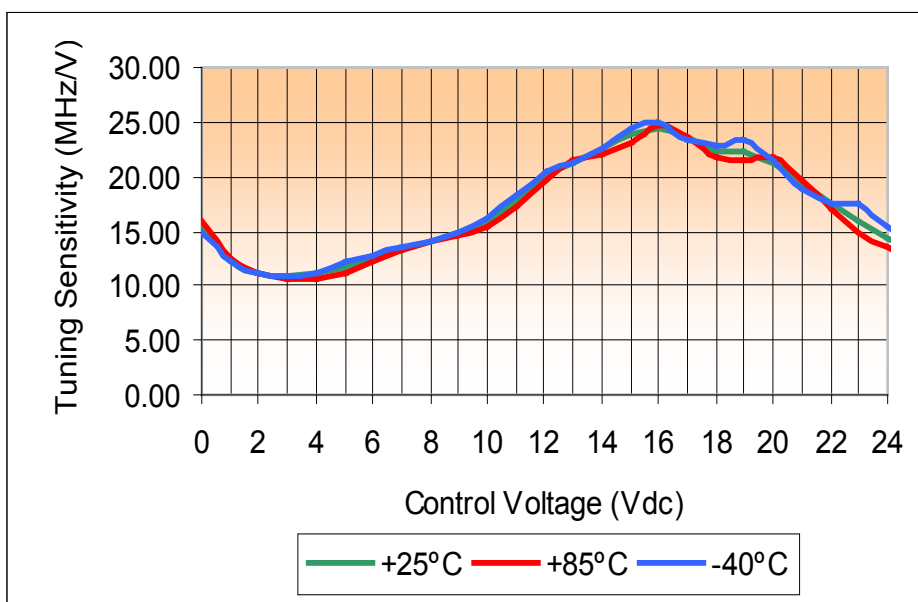
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