

VOLTAGE CONTROLLED OSCILLATOR

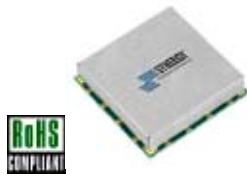
SURFACE MOUNT MODEL: DCRO485560-5

OPTIMIZED BANDWIDTH

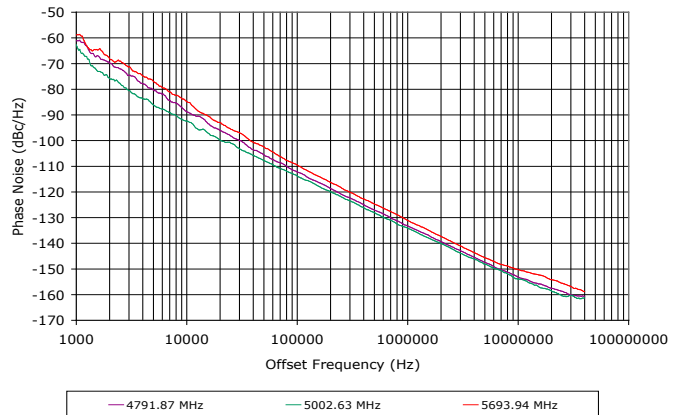
4850 - 5625 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. A 12/01/08)

| | |
|-----------------------------|----------------------------|
| Frequency | 4850 - 5625 MHz |
| Tuning Voltage | See table below. |
| Bias Voltage | +5 VDC @ 41 mA (Max.) |
| Output Power | +2 dBm (Min.) |
| Tuning Sensitivity | 47 - 62 MHz/V (Typ.) |
| Output Impedance | 50 Ohms (Nom.) |
| Harmonic Suppression | 22 dB (Typ.) |
| Frequency Pulling | 3 MHz (Typ. @ 1.75:1 VSWR) |
| Frequency Pushing | 1 MHz/V (Typ.) |
| Tuning Port Capacitance | 80 pF (Typ.) |
| Phase Noise @ 10 kHz | -88 dBc/Hz (Typ) |
| Operating Temperature Range | -40 to +85 °C |

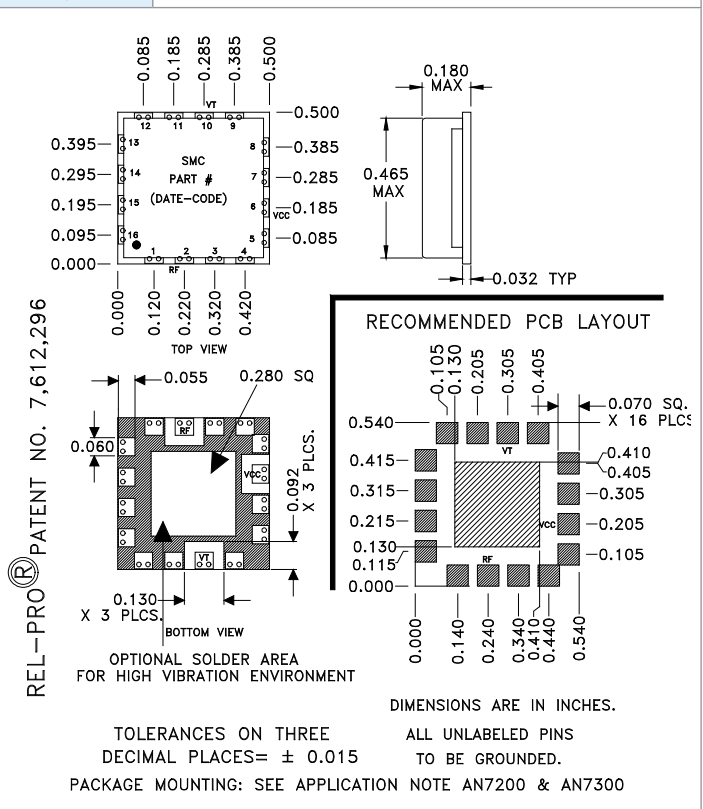
Guaranteed Tuning Specifications

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 4850 (Max.) |
| 5 | 4930 (Min.) |
| 8 | 5075 (Min.) |
| 12 | 5285 (Min.) |
| 15 | 5460 (Min.) |
| 18 | 5625 (Min.) |

Absolute Maximum Ratings

| | |
|------------------------------|----------------|
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage | +5.5 V |
| Tuning Voltage | +28 V |
| DC Voltage Applied to RF Out | ±25 V |

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; 7,282,670; 7,265,642; 7,292,113; 7,365,612; 7,495,525; 2,548,311; 2,548,317; 7,545,229; 7,580,693; 7,886,381; 7,605,670; 7,536,021; 2,533,623 | 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; 7,545,229; 2,963,174; 7,580,693; 7,612,296; 2,524,751



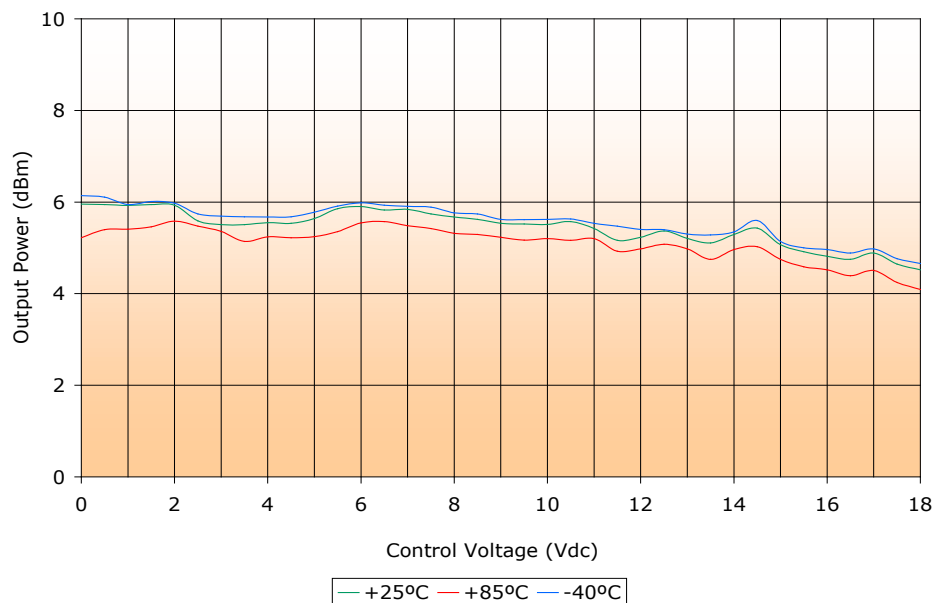
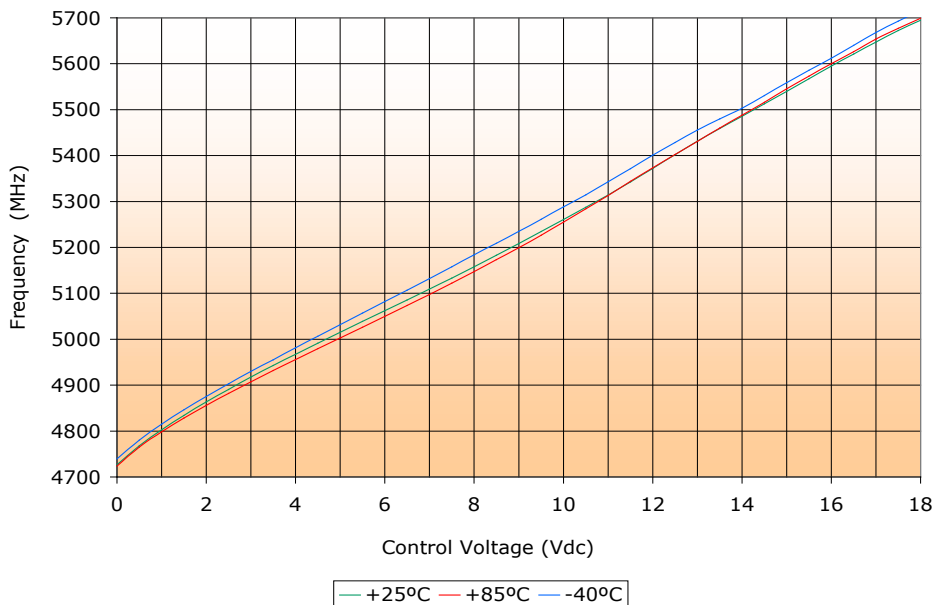
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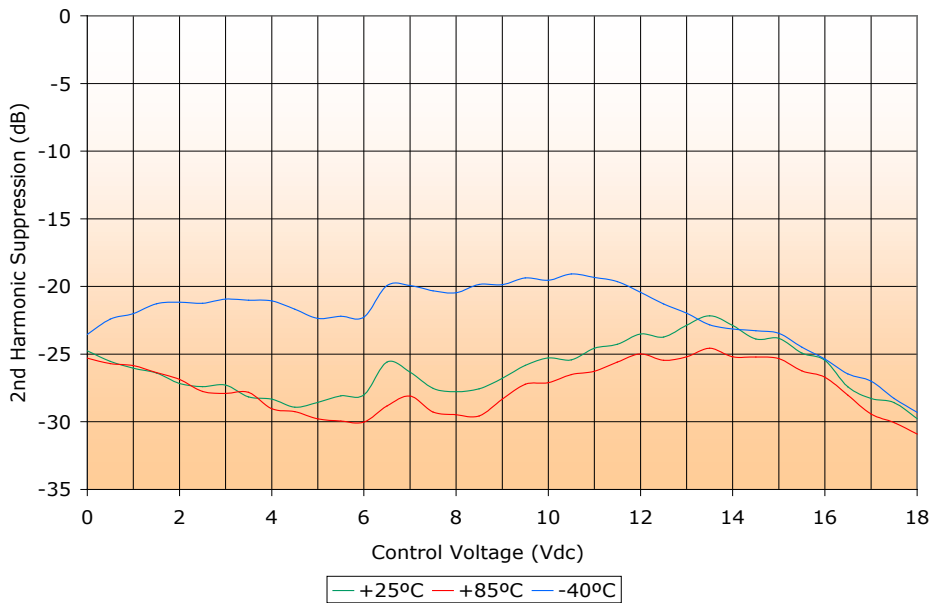
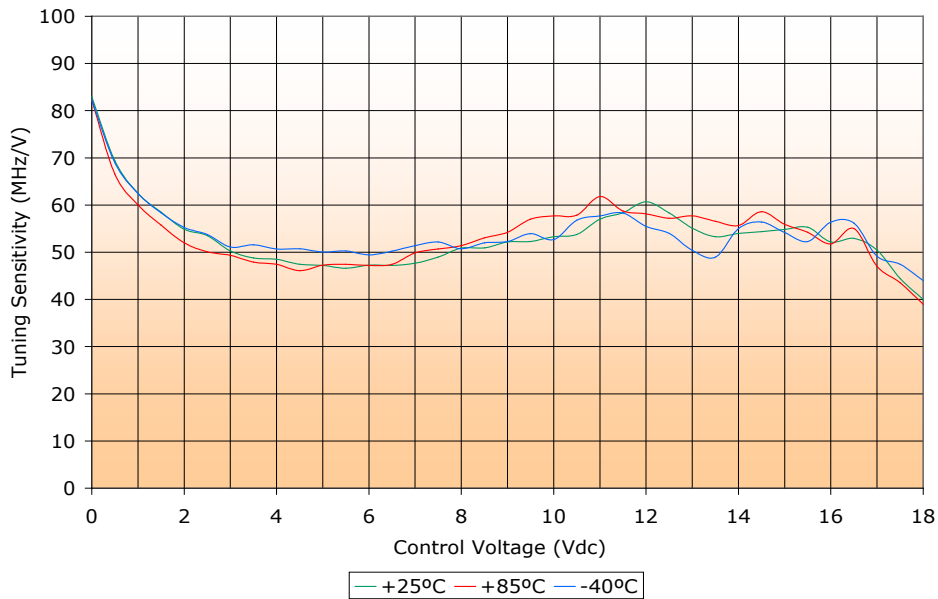
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