

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: MFC5360-5

OPTIMIZED BANDWIDTH

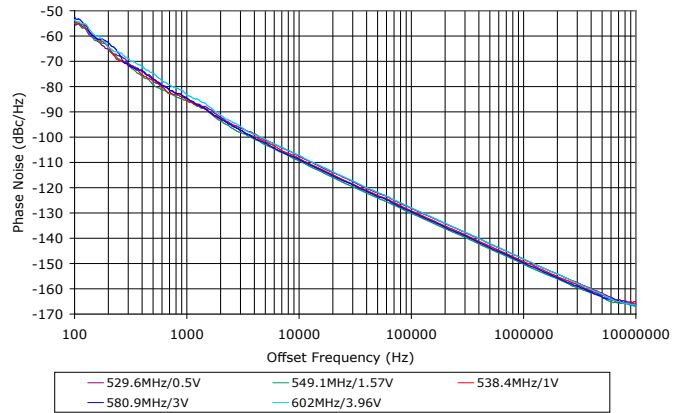
535 - 600 MHz

FEATURES:

- ▶ Low Phase Noise Performance
- ▶ Fast Tuning
- ▶ Ideal for PLL Applications
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



Phase Noise



SPECIFICATIONS (Rev. B 11/03/08)

| | |
|-----------------------------|----------------------------|
| Frequency | 535 - 600 MHz |
| Tuning Voltage | See table below. |
| Bias Voltage | +5 VDC @ 20 mA (Max.) |
| Output Power | +3.5 dBm (Min.) |
| Tuning Sensitivity | 15 - 25 MHz/V (Typ.) |
| Output Impedance | 50 Ohms (Nom.) |
| Harmonic Suppression | 18 dB (Typ.) |
| Frequency Pulling | 3 MHz (Typ. @ 1.75:1 VSWR) |
| Frequency Pushing | 2 MHz/V (Typ.) |
| Tuning Port Capacitance | 55 pF (Typ.) |
| Phase Noise @ 10 kHz | -108 dBc/Hz (Typ.) |
| Operating Temperature Range | -40 to 85 °C |

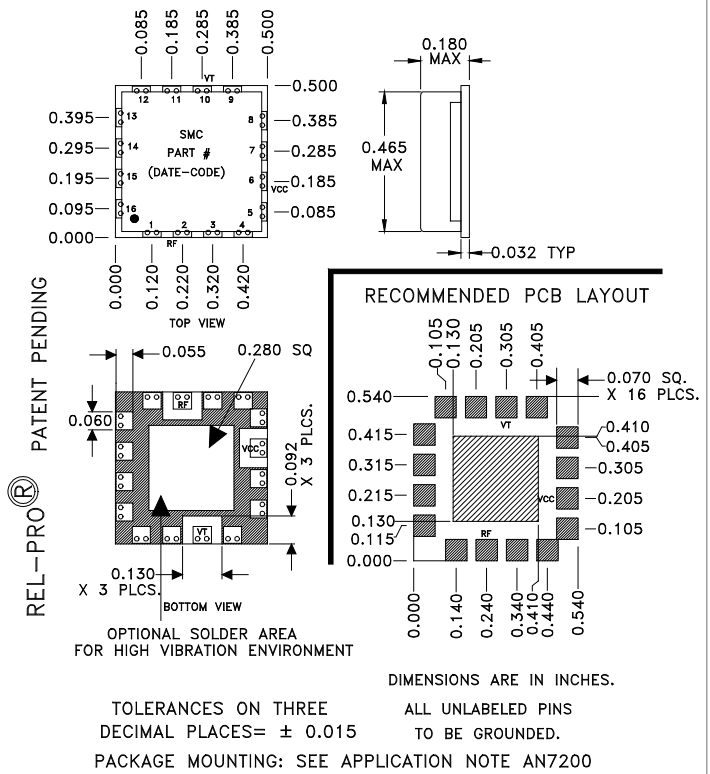
Guaranteed Tuning Specifications

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 535 (Max.) |
| 5 | 600 (Min.) |

Absolute Maximum Ratings

| | |
|------------------------------|----------------|
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage | +5.5 V |
| Tuning Voltage | +10 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; 7,262,670; 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

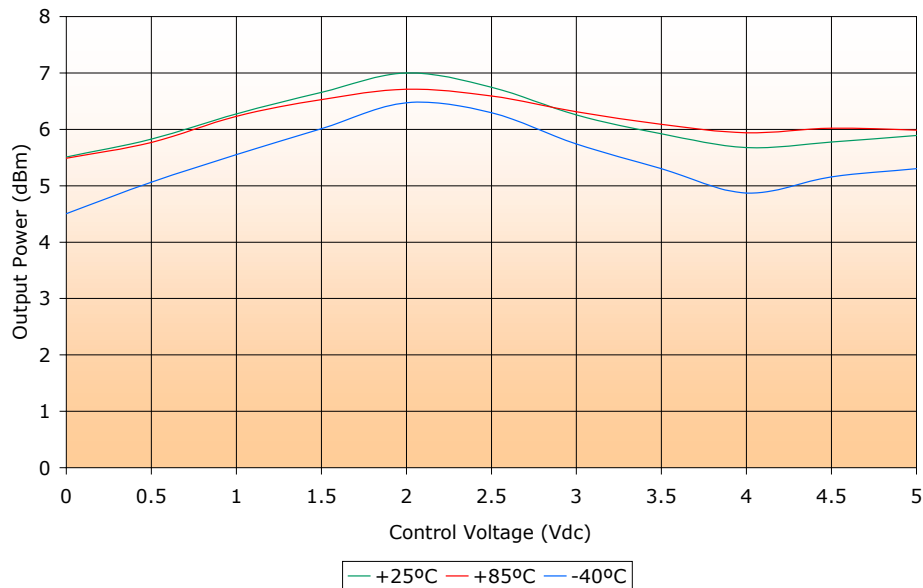
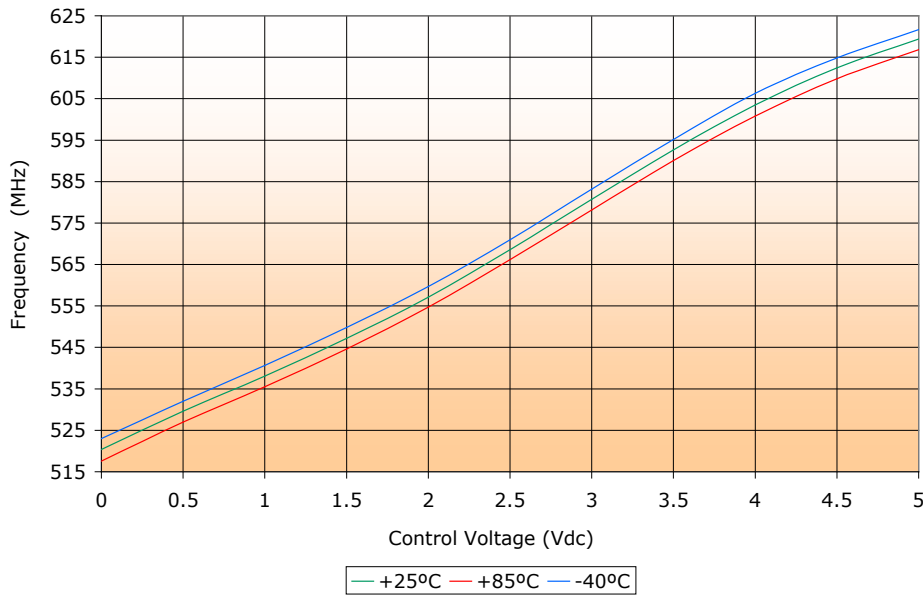


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PERFORMANCE PLOTS



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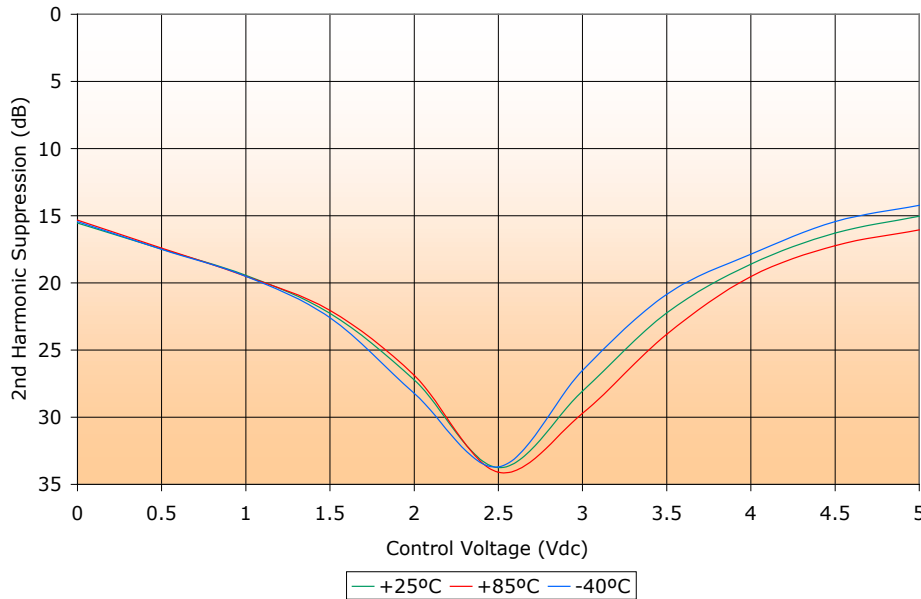
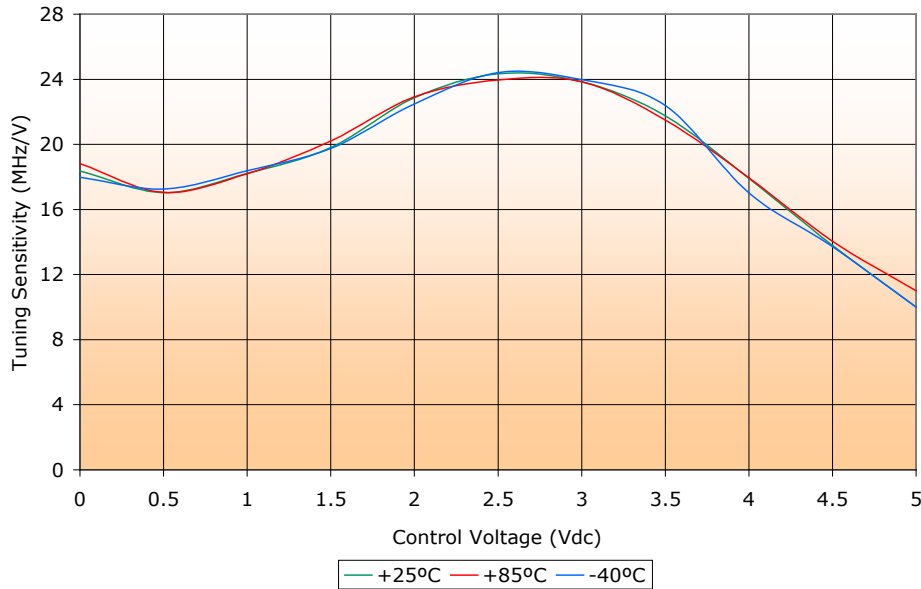


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