

VOLTAGE CONTROLLED OSCILLATOR

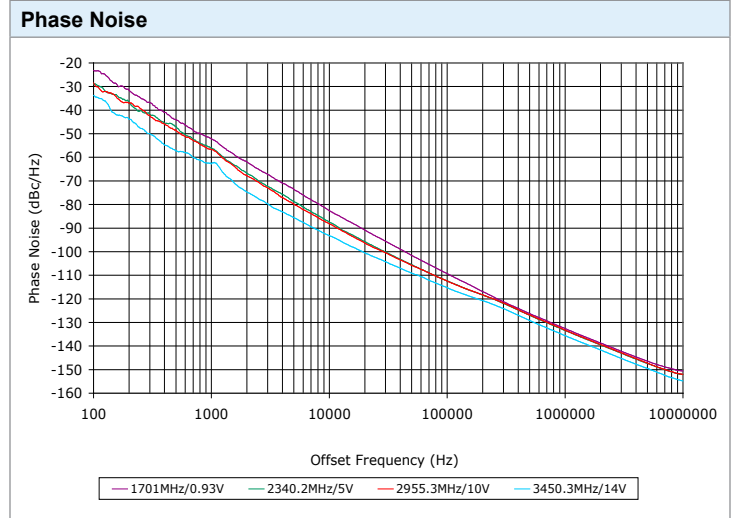
SURFACE MOUNT MODEL: DCMO170345-5

WIDE BANDWIDTH

1700 - 3450 MHz

FEATURES:

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



SPECIFICATIONS (Rev. B 07/03/07)

| | |
|-----------------------------|-----------------------------|
| Frequency | 1700 - 3450 MHz |
| Tuning Voltage (Full Band) | See table below. |
| Bias Voltage | +5 VDC @ 50 mA (Max.) |
| Output Power | +4 dBm (Min.) |
| Tuning Sensitivity | 120 - 200 MHz/V (Typ.) |
| Output Impedance | 50 Ohms (Nom.) |
| Harmonic Suppression | 15 dB (Typ.) |
| Frequency Pulling | 14 MHz (Typ. @ 1.75:1 VSWR) |
| Frequency Pushing | 12 MHz/V (Typ.) |
| Tuning Port Capacitance | 50 pF (Typ.) |
| Phase Noise @ 10 kHz | -88 dBc/Hz (Typ.) |
| Operating Temperature Range | -20 to +70 °C |

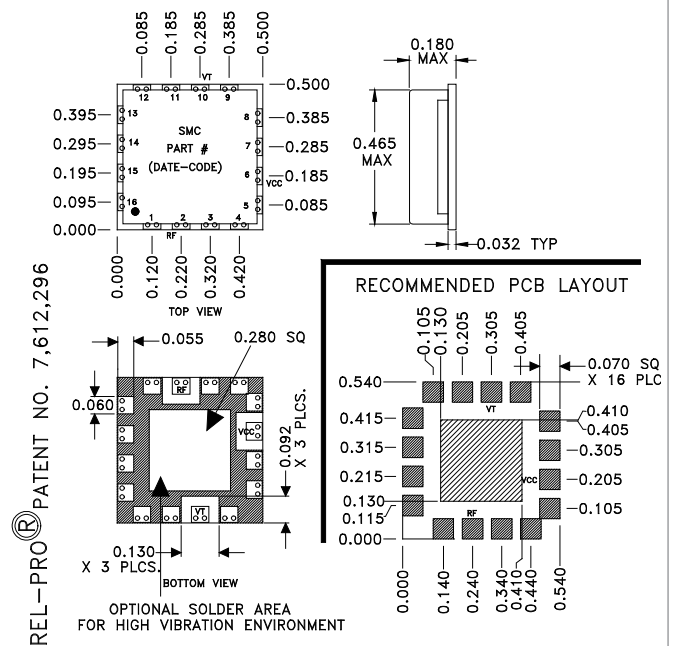
Guaranteed Tuning Specifications

| Tuning Voltage (V) | Frequency (MHz) |
|----------------------|-------------------|
| 0.5 | 1700 (Max) |
| 5 | 2100 (Min) |
| 8 | 2450 (Min) |
| 12 | 2950 (Min) |
| 16 | 3450 (Min) |

Absolute Maximum Ratings

| | |
|------------------------------|----------------|
| Storage Temp. Range | -55 to +125 °C |
| Bias Voltage | +5.5 V |
| Tuning Voltage | +20 V |
| DC Voltage Applied to RF Out | ± 25 V |

Package # 278LF



TOLERANCES ON THREE DECIMAL PLACES = ± 0.015
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

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
 | 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; 2,563,174; 7,580,693; 7,612,296; 2,524,751

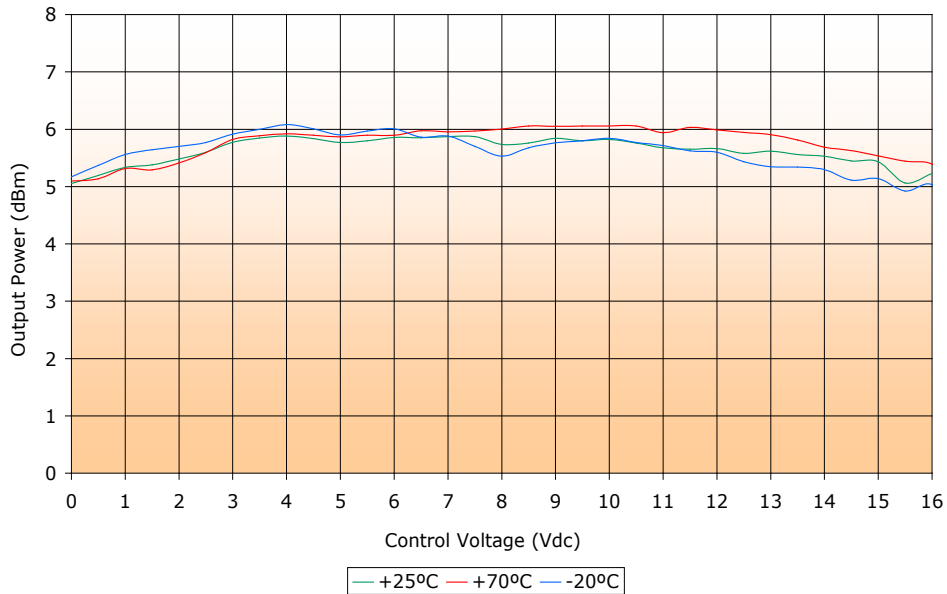
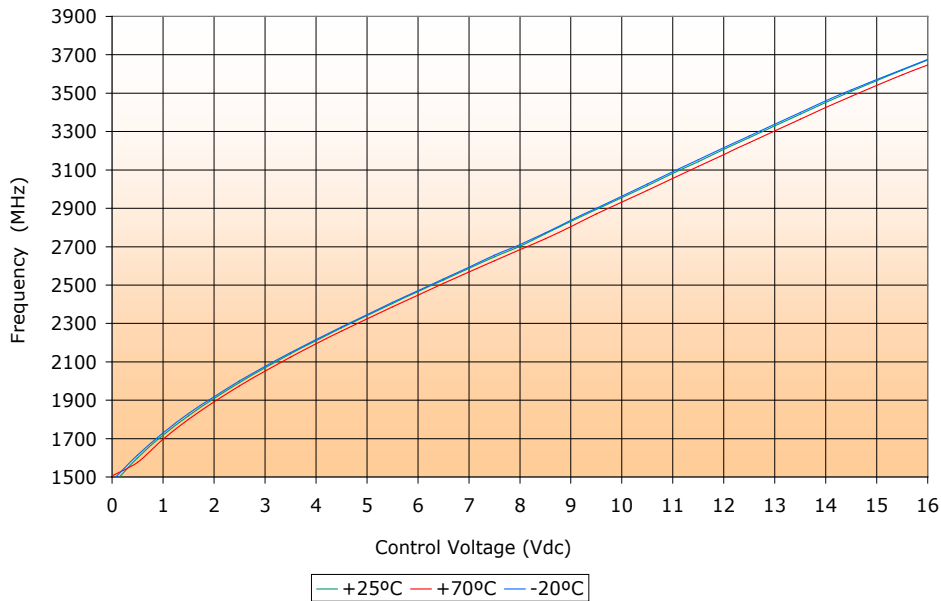
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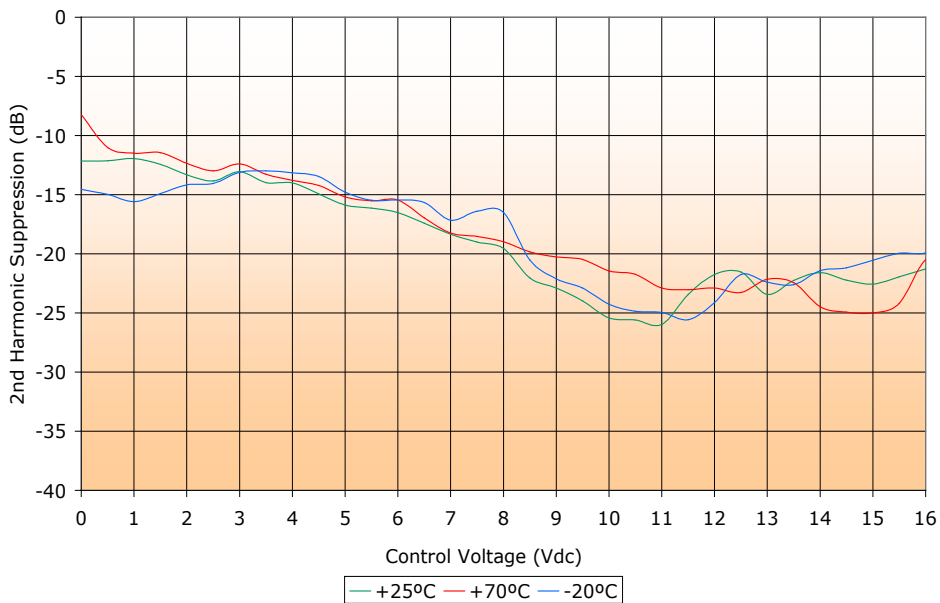
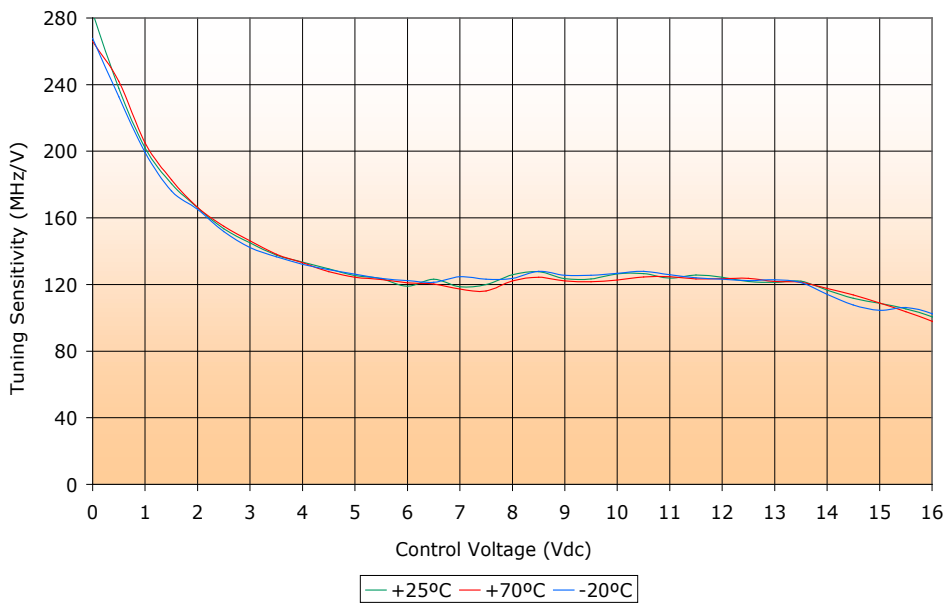
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