

VOLTAGE CONTROLLED OSCILLATOR

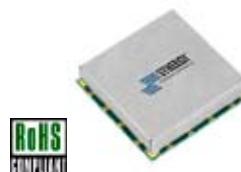
SURFACE MOUNT MODEL: DCMO1857

WIDE BANDWIDTH

180 - 560 MHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Self Regulated Power Supply Voltage
- ▶ Small Size, Surface Mount
- ▶ Lead Free Patented REL-PRO® Technology



SPECIFICATIONS (Rev. F 09/01/09)

Frequency	180 - 560 MHz
Tuning Voltage	See table below.
Bias Voltage *	+5 to +12 VDC @ 32 mA (Max.)
Output Power	+4.5 dBm (Min.)
Tuning Sensitivity	8 - 26 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	12 dB (Typ.)
Frequency Pulling	4 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	1 MHz/V (Typ.)
Tuning Port Capacitance	330 pF (Typ.)
Phase Noise @ 10 kHz	-108 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

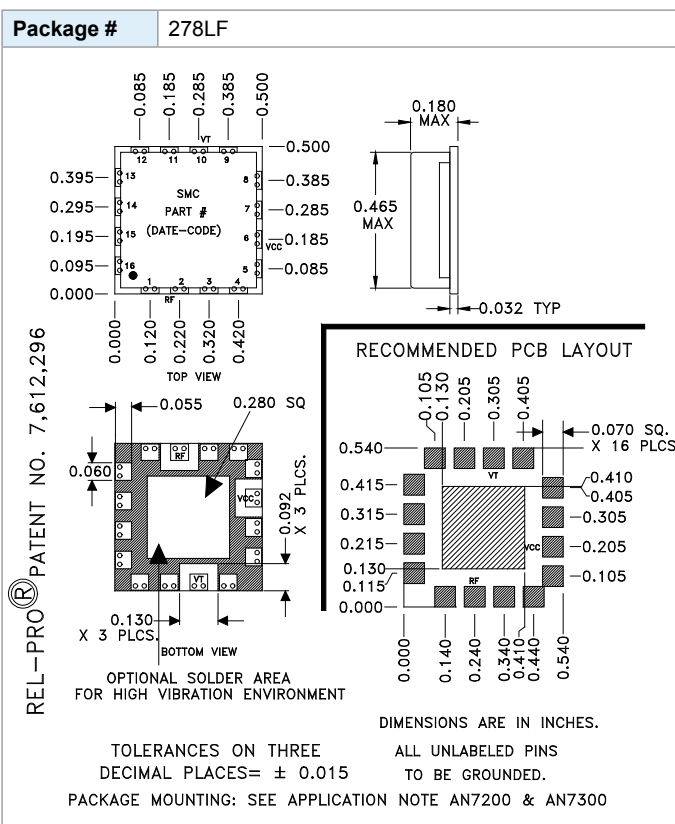
* Internally regulated

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	180 (Max.)
5	260 (Min.)
8	330 (Min.)
12	420 (Min.)
15	460 (Min.)
18	505 (Min.)
24	560 (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



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; 5,660,754; 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; 60/601623; 60/605791; EV31369634; 11/259766; 60/622485 & 60/710310; 10/3732560/736901; 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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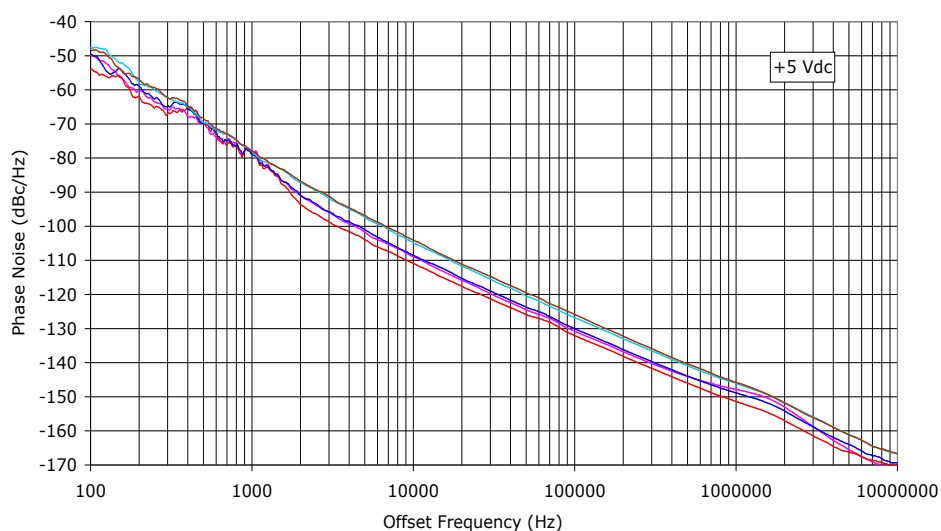
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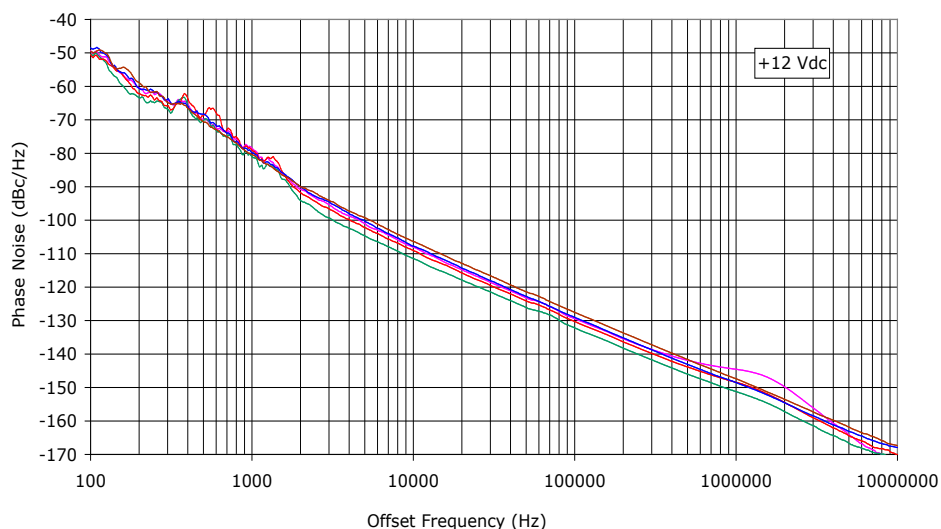
WIDE BANDWIDTH

180 - 560 MHz

PERFORMANCE PLOTS



— 179.4 MHz — 271.1 MHz — 388.3 MHz — 473.3 MHz — 570 MHz



— 178.8 MHz — 271.1 MHz — 388.5 MHz — 474.2 MHz — 570.1 MHz

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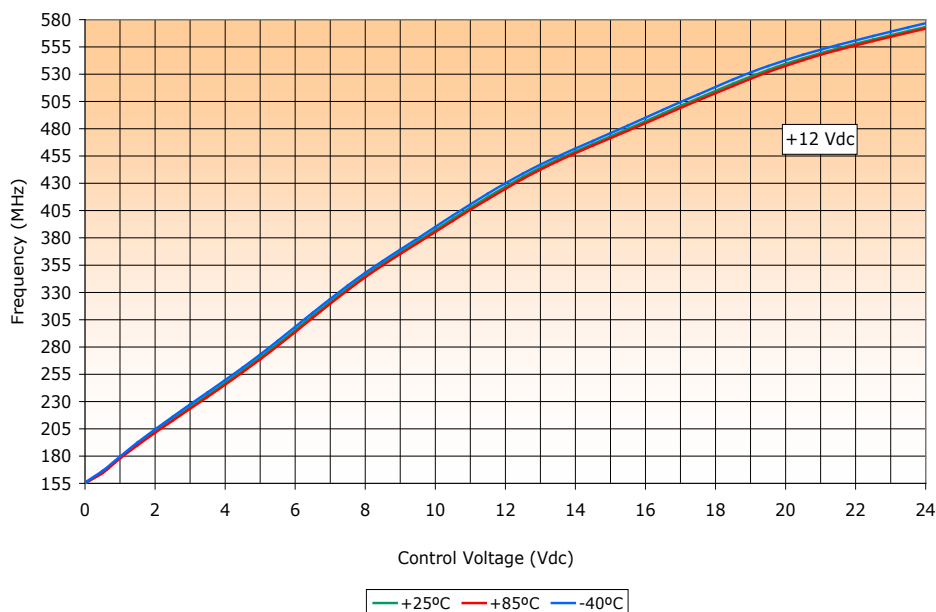
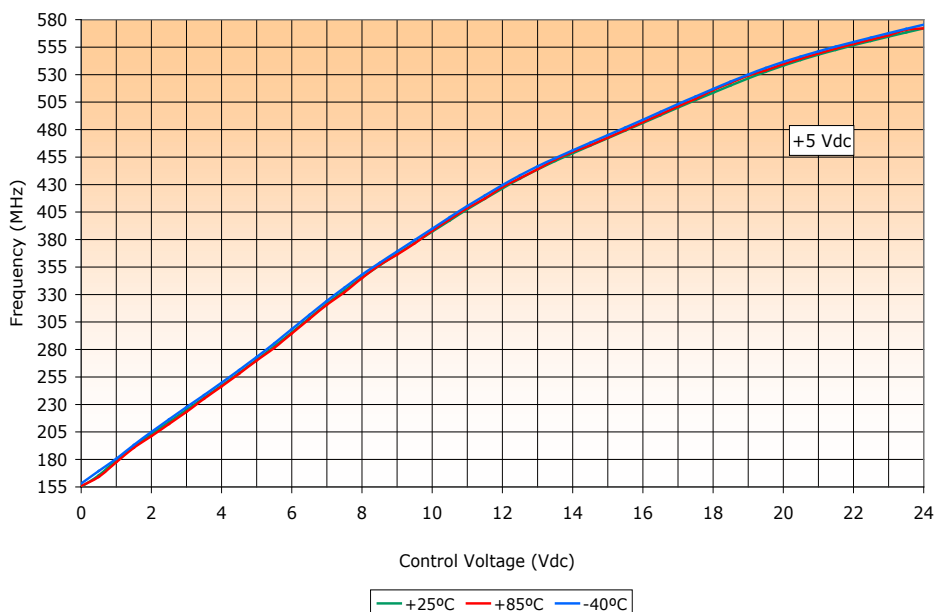
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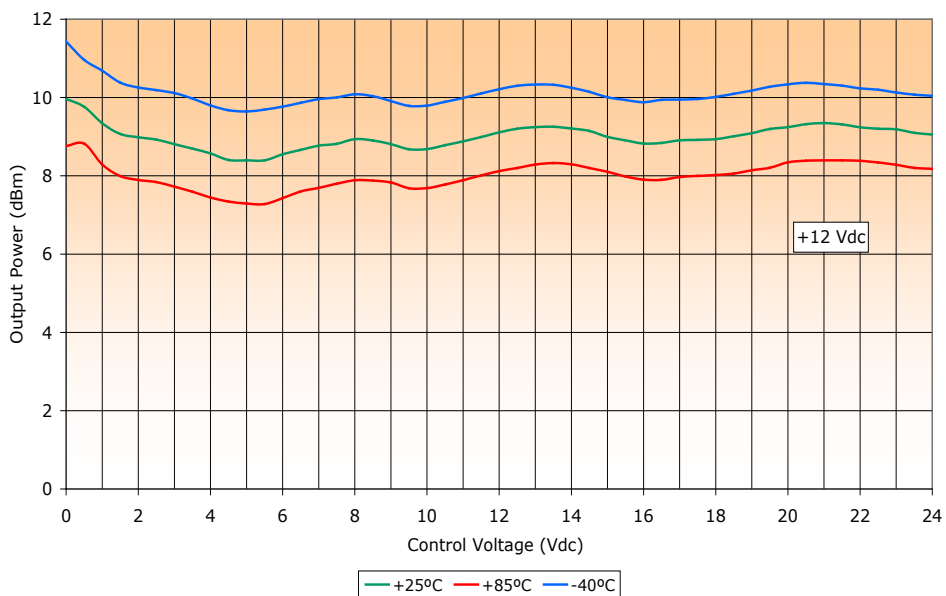
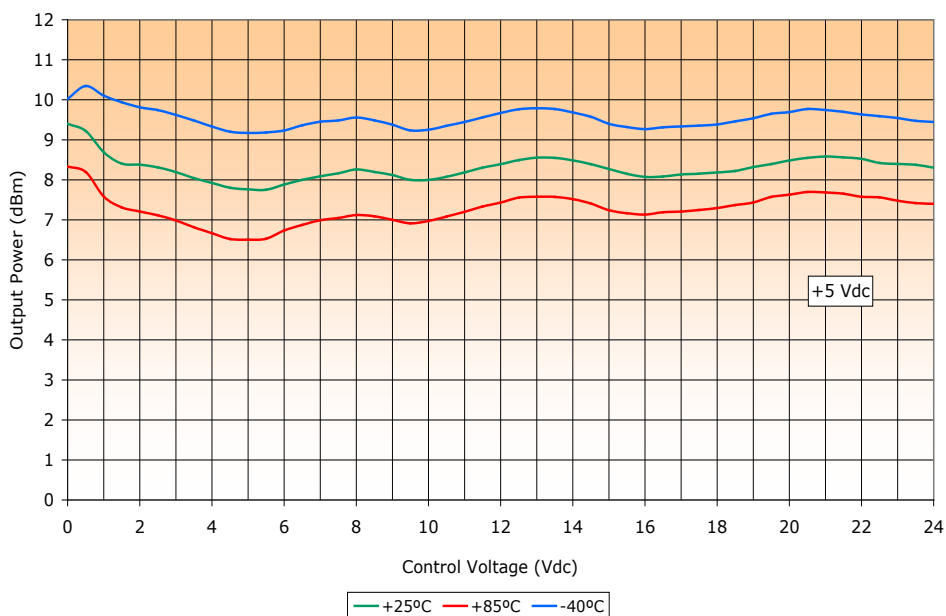
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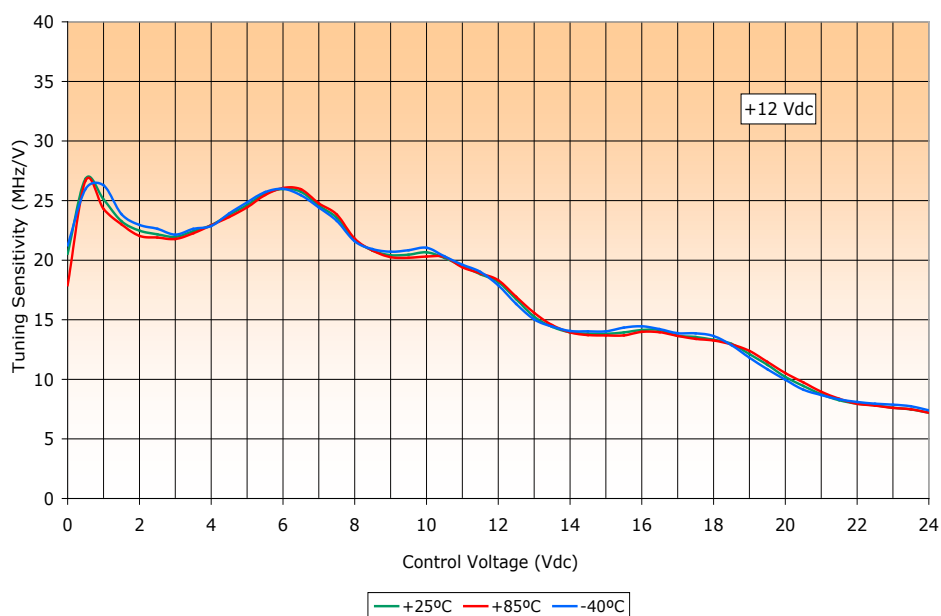
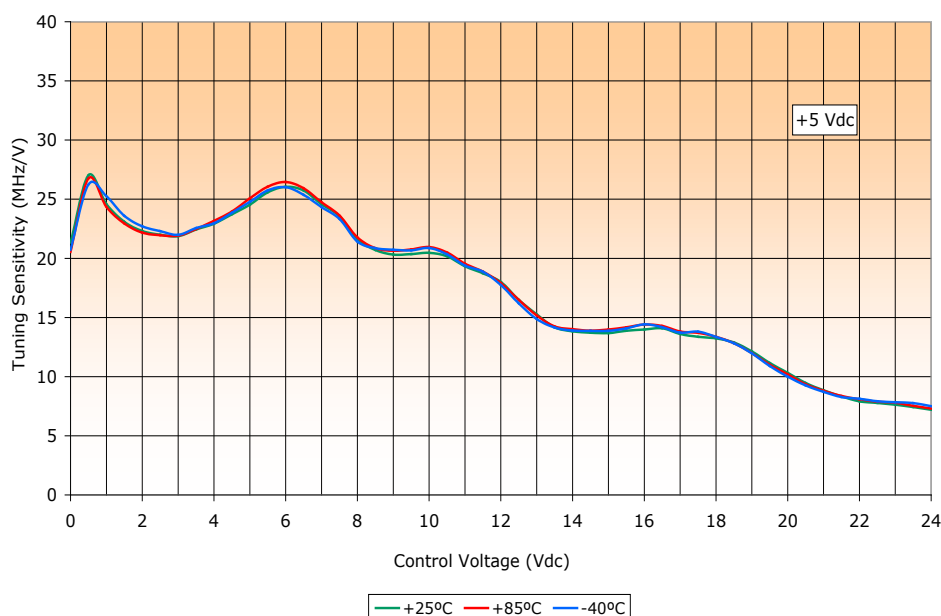
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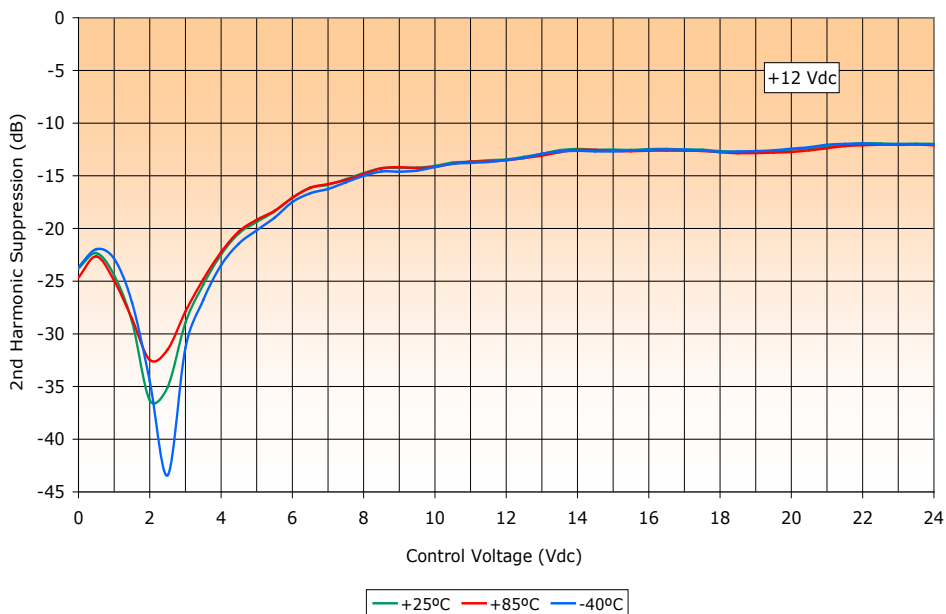
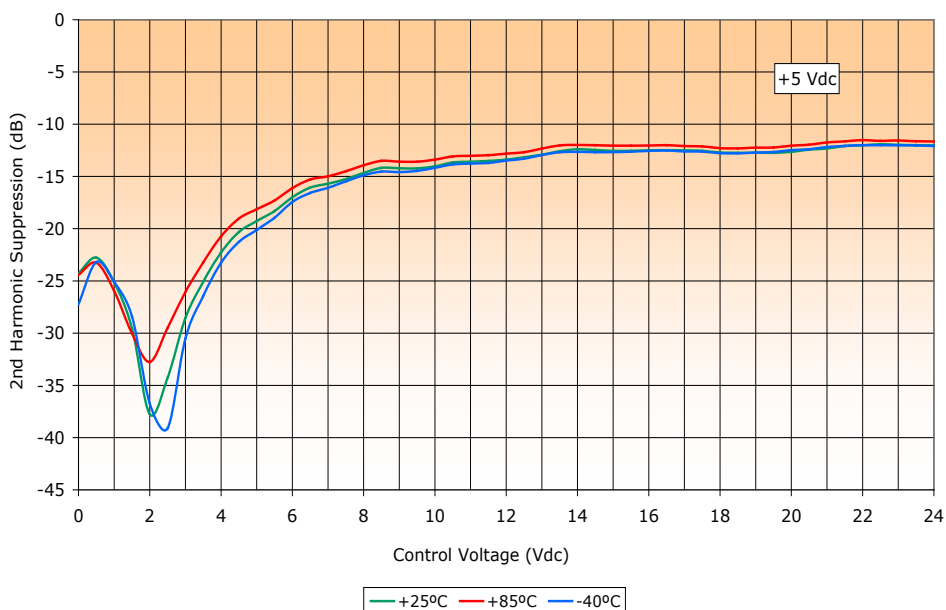
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