

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCRO150200-5

OPTIMIZED BANDWIDTH

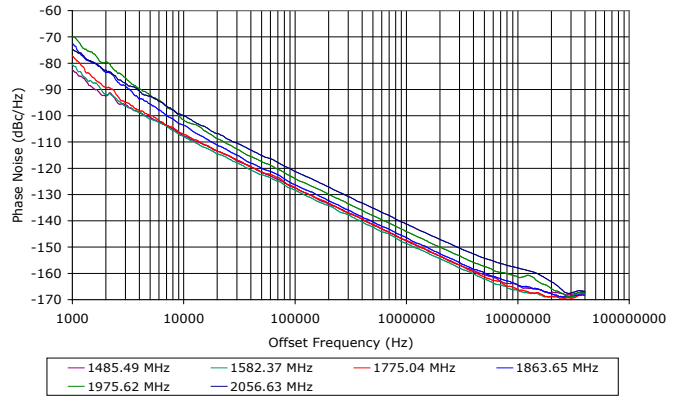
1505 - 2000 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. A 10/19/08)

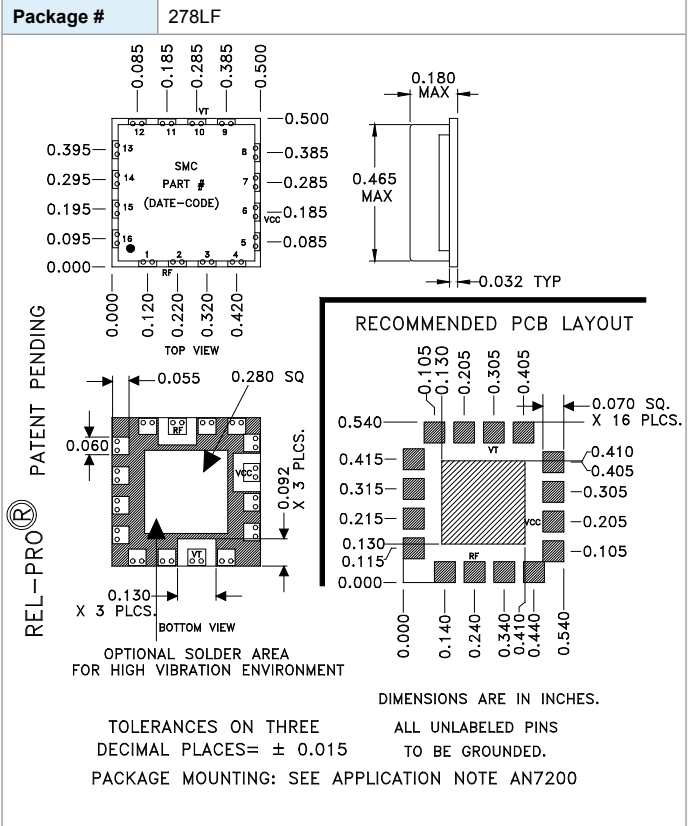
Frequency	1505 - 2000 MHz
Tuning Voltage	See table below.
Bias Voltage	+5 VDC @ 30 mA (Max.)
Output Power	+3.0 dBm (Min.)
Tuning Sensitivity	25 - 45 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	6 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	6 MHz/V (Typ.)
Tuning Port Capacitance	33 pF (Typ.)
Phase Noise @ 10 kHz	-104 dBc/Hz (Typ.)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	1505 (Max.)
5	1590 (Min.)
8	1675 (Min.)
12	1825 (Min.)
15	1940 (Min.)
18	2000 (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



SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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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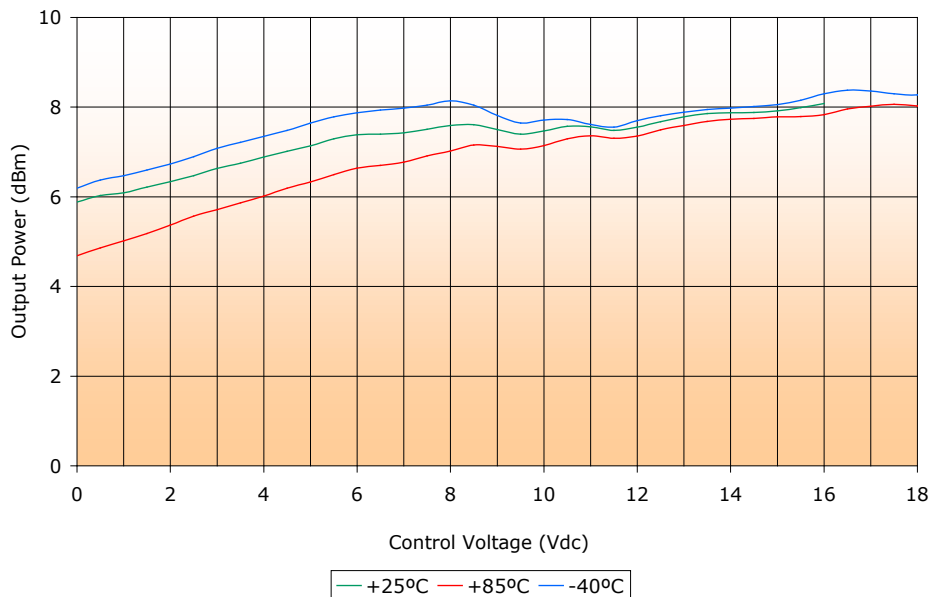
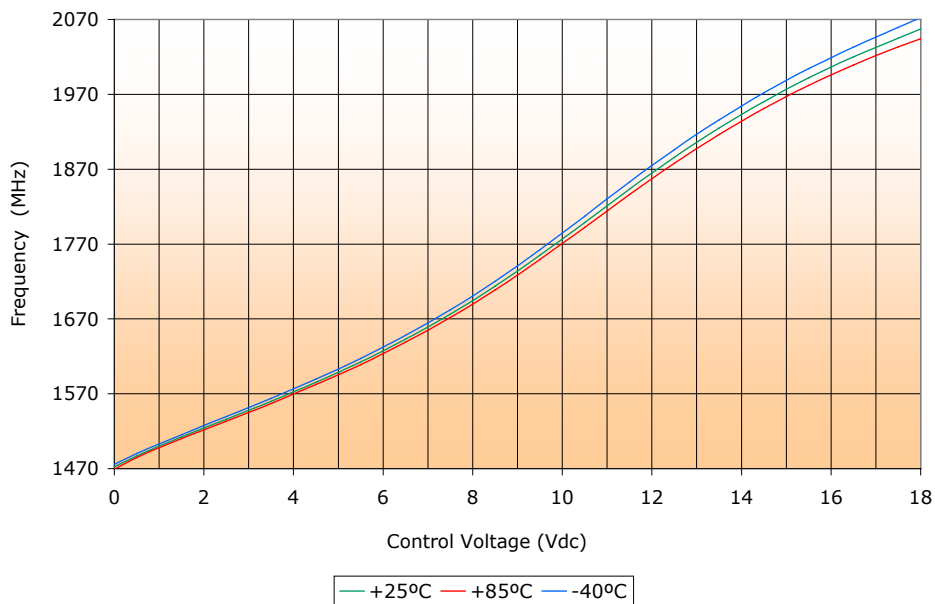
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PERFORMANCE PLOTS



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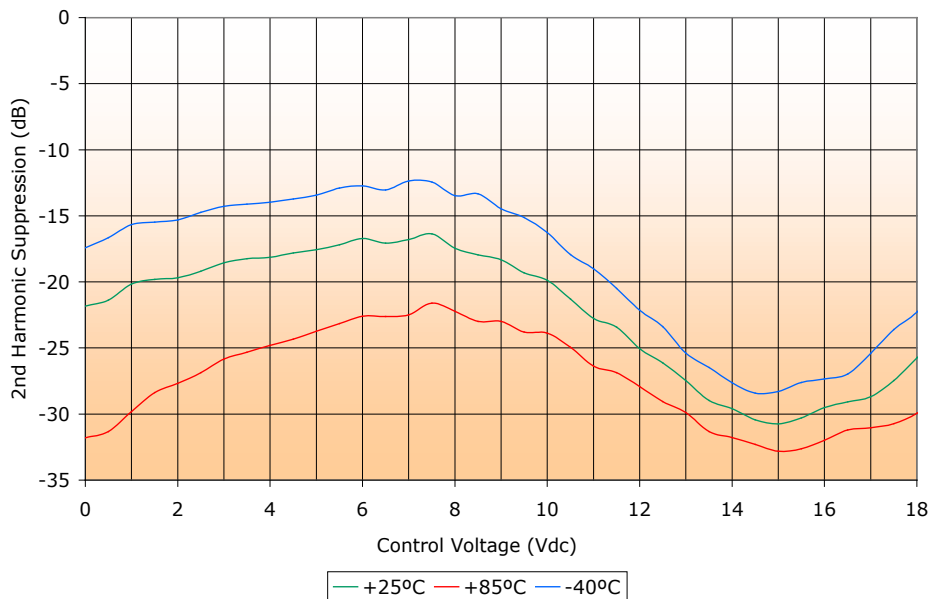
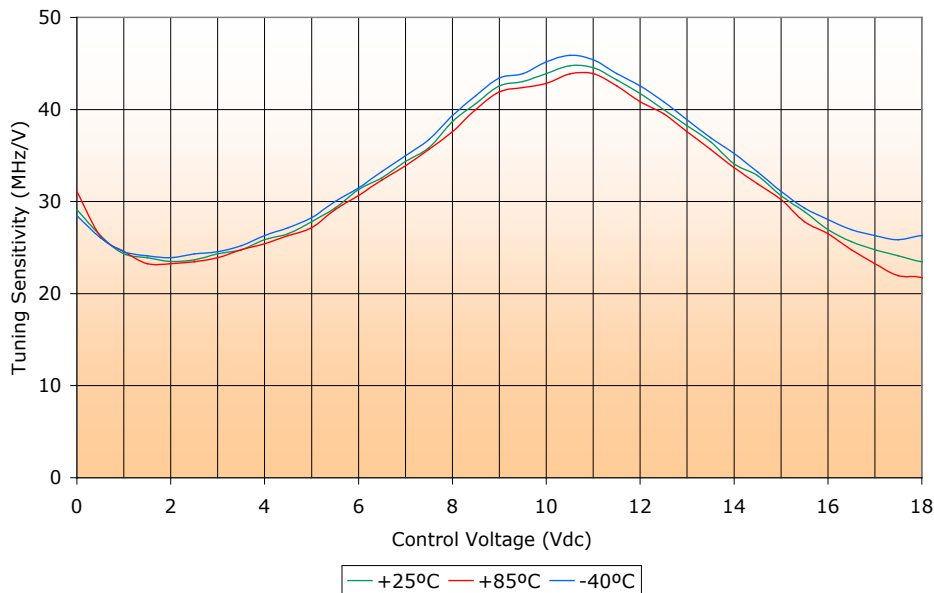
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