

VOLTAGE CONTROLLED OSCILLATOR

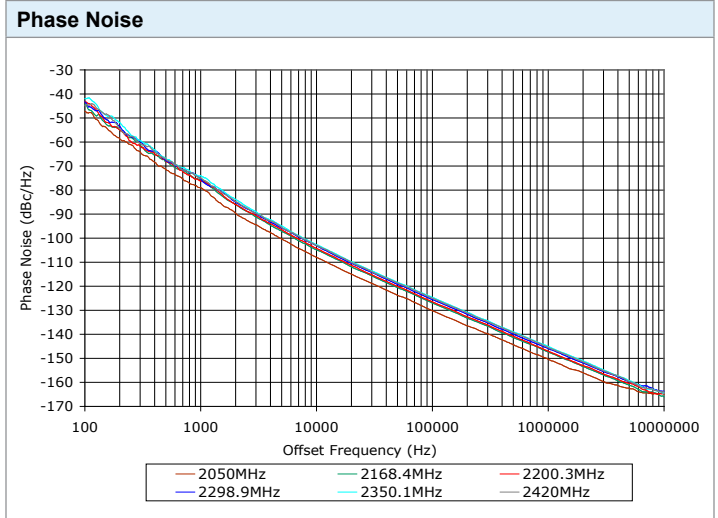
SURFACE MOUNT MODEL: DCRO205242-10

OPTIMIZED BANDWIDTH

2050 - 2420 MHz

FEATURES:

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



SPECIFICATIONS (Rev C 01/02/12)

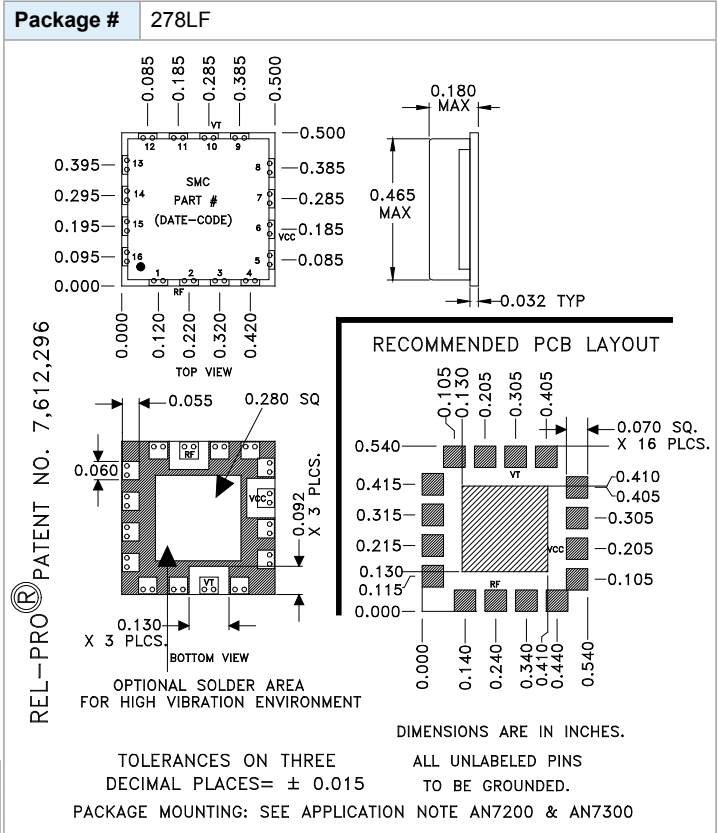
Frequencyz	2050 - 2420 MHz
Tuning Voltage (Full Band)	0.5 - 15 VDC
Bias Voltage	+10 VDC @ 40 mA (Max)
Output Power	+1 dBm (Min)
Tuning Sensitivity	30 - 45 MHz/V (Typ)
Output Impedance	50 Ohms (Nom)
Harmonic Suppression	20 dBc (Typ)
Frequency Pulling	4 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	4 MHz/V (Typ)
Tuning Port Capacitance	40 pF
Phase Noise @ 10 kHz	-105 dBc/Hz (Typ)
Operating Temperature Range	-40 to +85 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	2050 (Max)
5	2110 (Min)
8	2225 (Min)
10	2350 (Min)
12	2390 (Min)
15	2420 (Min)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+10.5 V
Tuning Voltage	+15 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; 5,650,754; 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; EV3136834; 11/263766; 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

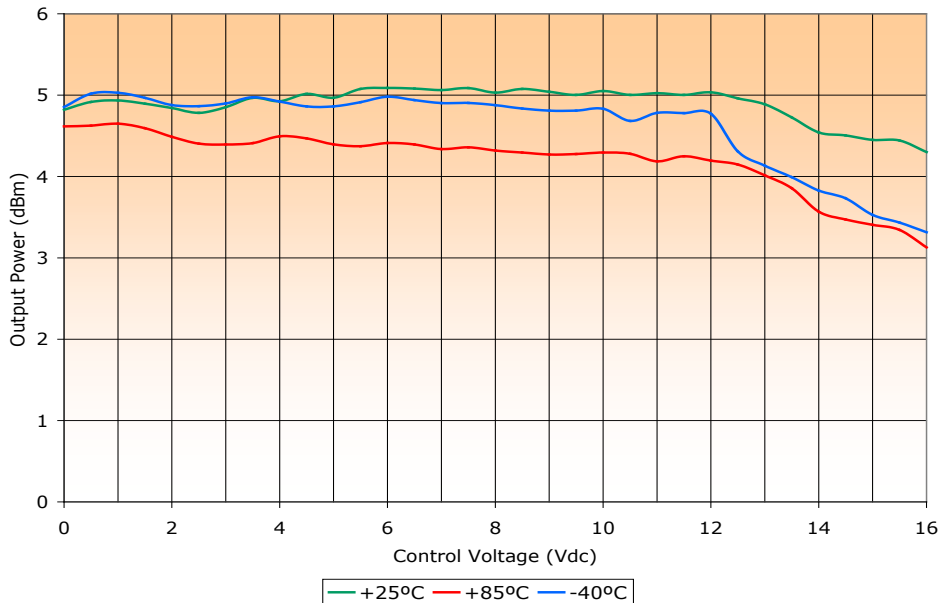
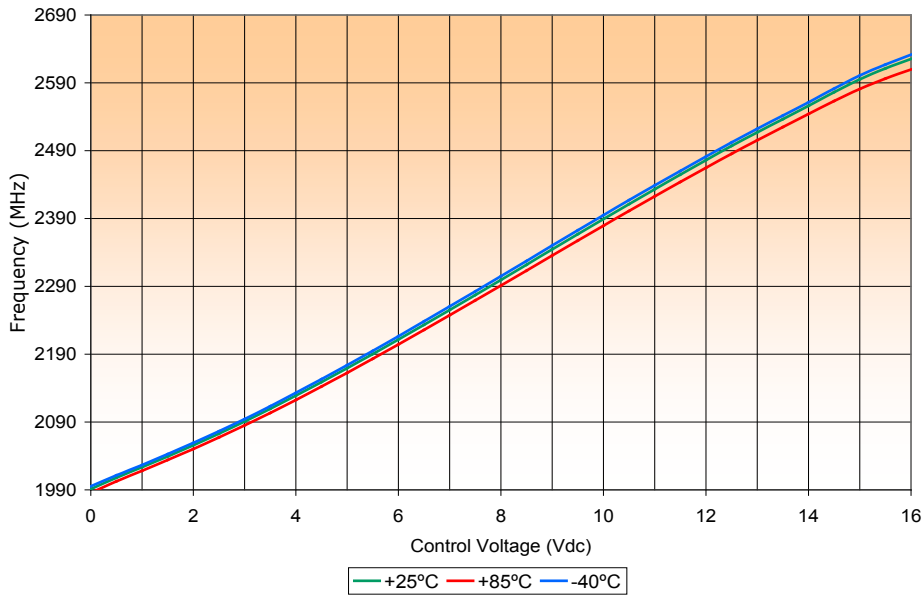


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PERFORMANCE PLOTS



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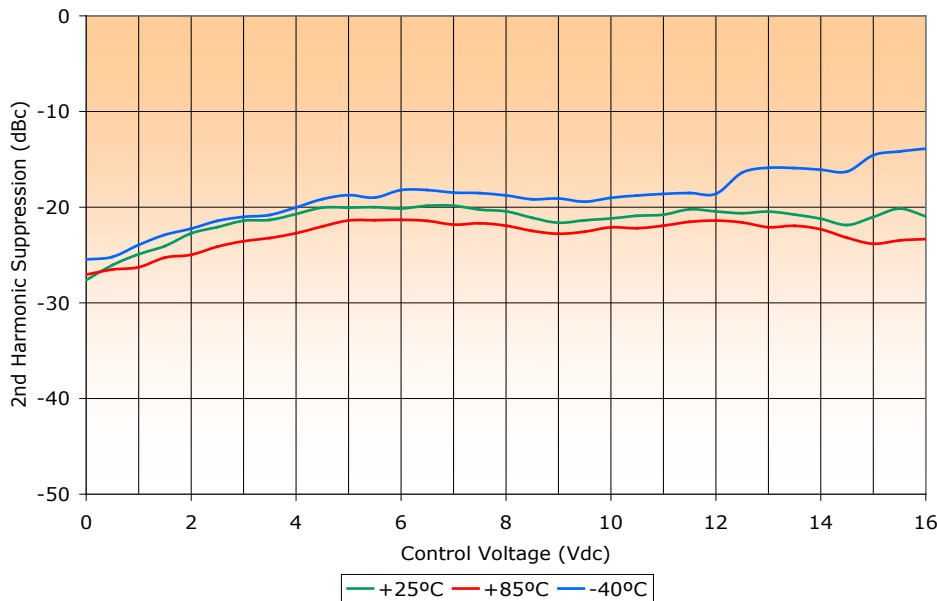
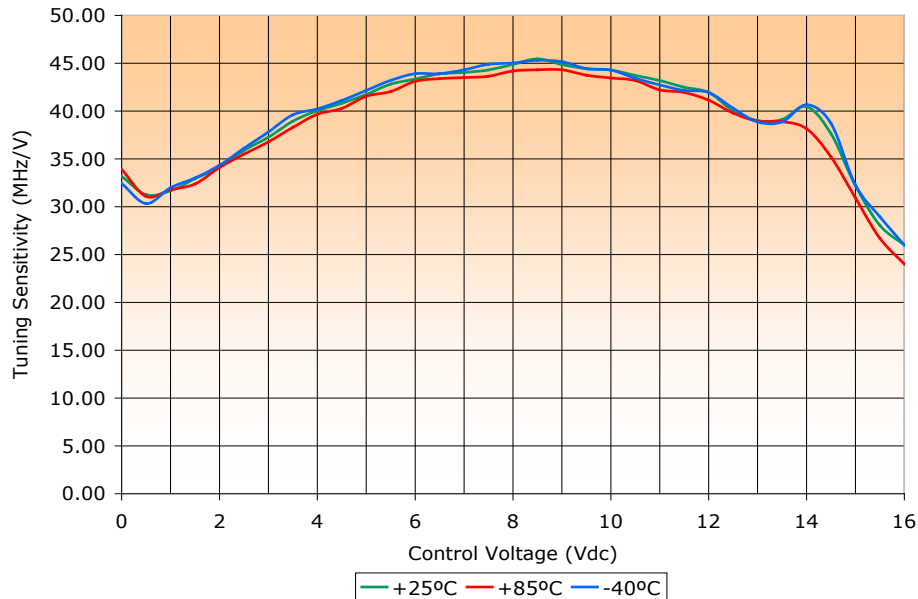


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