

VOLTAGE CONTROLLED OSCILLATOR

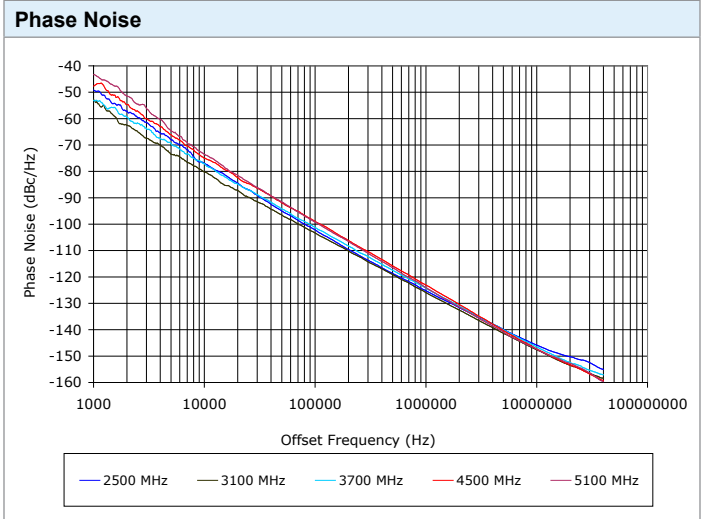
SURFACE MOUNT MODEL: DCYS250510-5

WIDE BANDWIDTH

2500 - 5100 MHz

FEATURES:

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



SPECIFICATIONS (Rev. B 06/11/10)

Frequency	2500 - 5100 MHz
Tuning Voltage (Full Band)	See table below.
Bias Voltage	+5 VDC @ 55 mA (Max.)
Output Power	3 dBm (Min.)
Tuning Sensitivity	85 - 340 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	16 MHz (Typ. @ 1.75:1 VSWR)
Frequency Pushing	8 MHz/V (Typ.)
Tuning Port Capacitance	40 pF (Typ.)
Phase Noise @ 10 kHz	-78 dBc/Hz (Typ.)
Operating Temperature Range	-20 to +85 °C

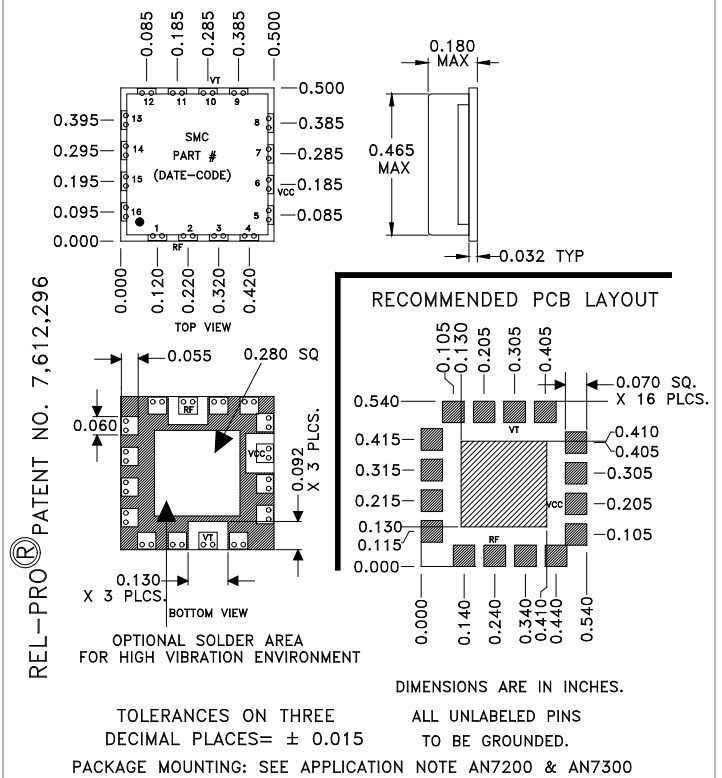
Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.3	2500 (Max.)
5	3250 (Min.)
8	4000 (Min.)
12	4700 (Min.)
16	5100 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+25 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; 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; EV/31369834; 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

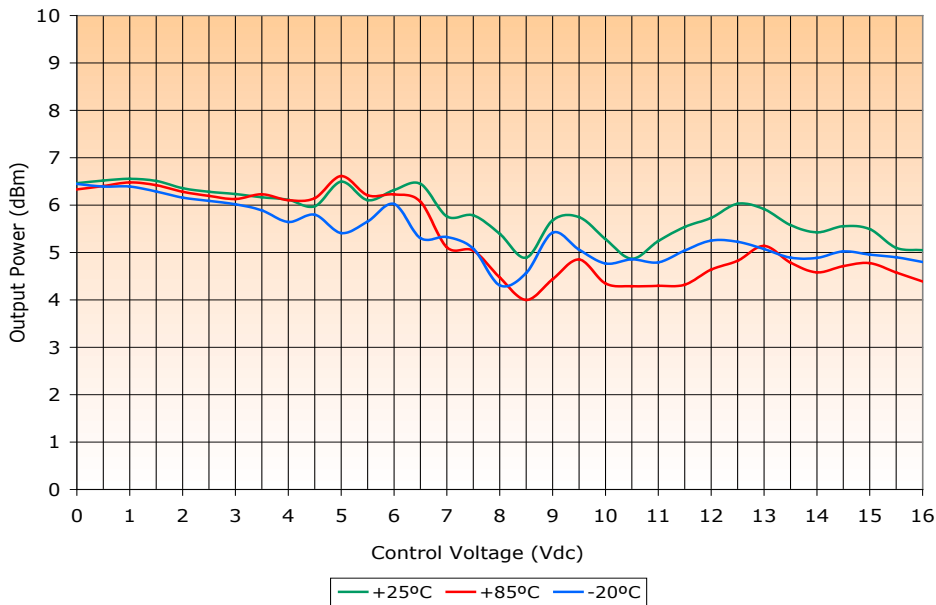
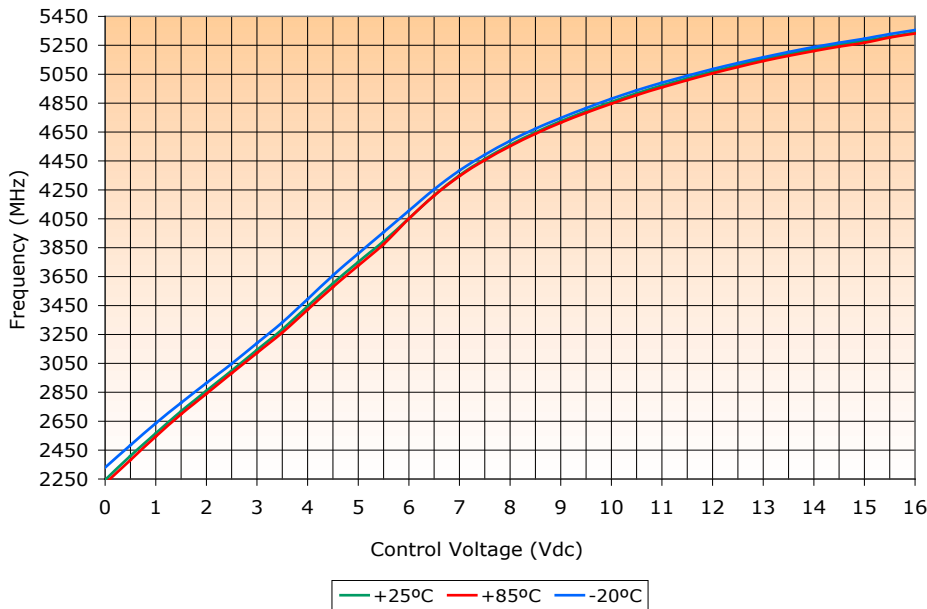
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS250510-5

WIDE BANDWIDTH

2500 - 5100 MHz

PERFORMANCE PLOTS



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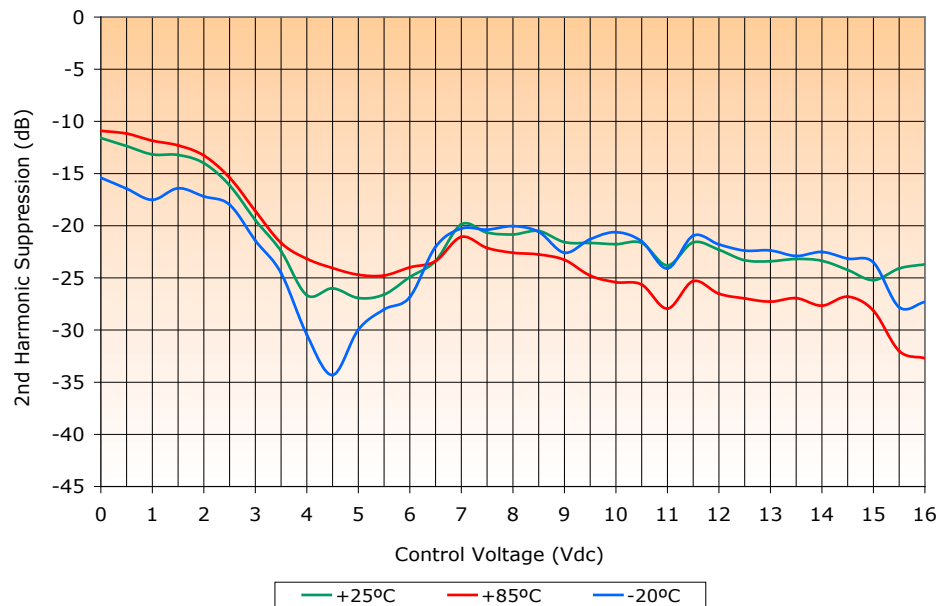
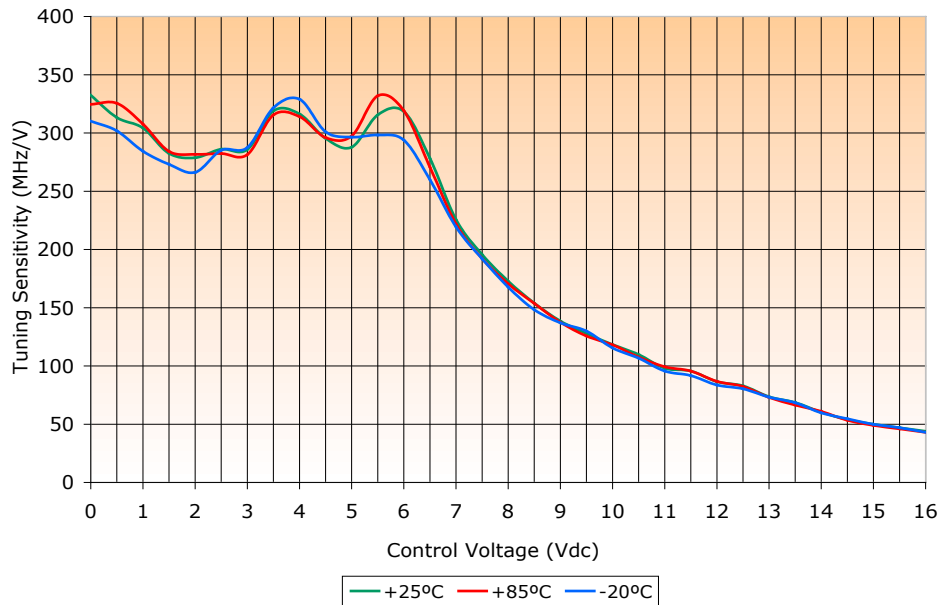


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCYS250510-5

WIDE BANDWIDTH

2500 - 5100 MHz

PERFORMANCE PLOTS



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