

VOLTAGE CONTROLLED OSCILLATOR

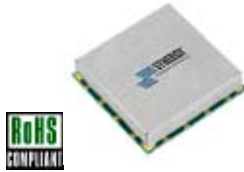
SURFACE MOUNT MODEL: DCYS250500-5

WIDE BANDWIDTH

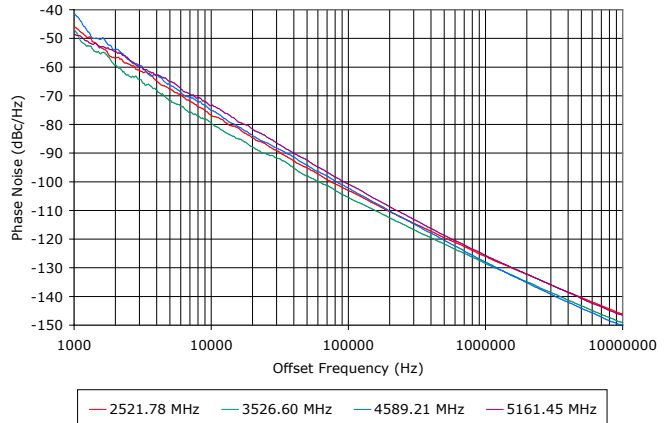
2500 - 5000 MHz

FEATURES:

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



Phase Noise



SPECIFICATIONS (Rev. I 10/20/08)

Frequency	2500 - 5000 MHz
Tuning Voltage (Full Band)	See table below.
Bias Voltage	+5 VDC @ 55 mA (Max.)
Output Power	-3 dBm (Min.)
Tuning Sensitivity	130 - 375 MHz/V (Typ.)
Output Impedance	50 Ohms (Nom.)
Harmonic Suppression	15 dB (Typ.)
Frequency Pulling	14 MHz (Typ @ 1.75:1 VSWR)
Frequency Pushing	7 MHz/V (Typ)
Tuning Port Capacitance	74 pF (Typ.)
Phase Noise @ 10 kHz	-76 dBc/Hz (Typ)
Operating Temperature Range	-20 to +70 °C

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	2500 (Max.)
5	3450 (Min)
8	4250 (Min)
14	5000 (Min)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+15 V
DC Voltage Applied to RF Out	± 25 V

Package # 278LF

REL-PRO® PATENT PENDING

OPTIONAL SOLDER AREA FOR HIGH VIBRATION ENVIRONMENT

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES= ± 0.015

ALL UNLABELED PINS TO BE GROUNDING.

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

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



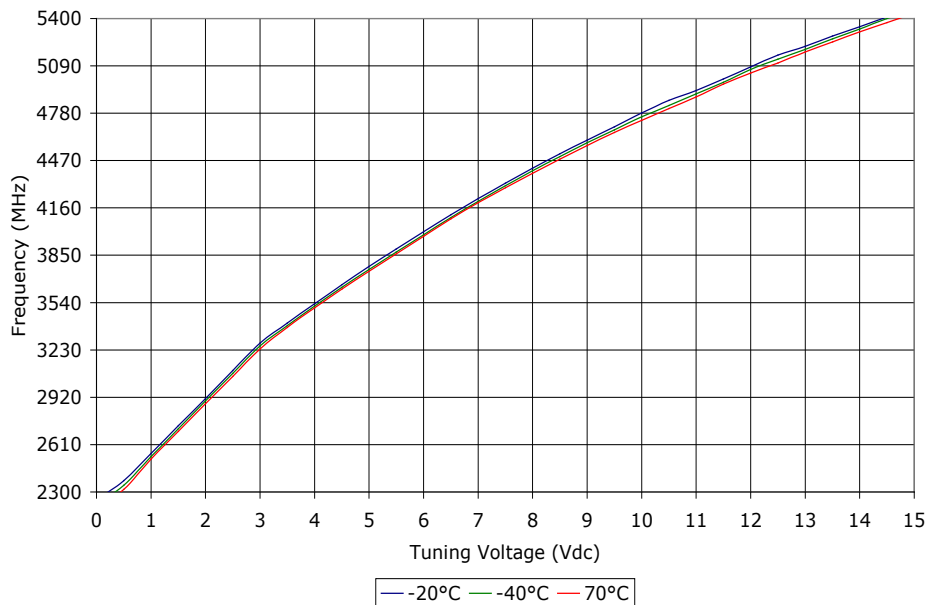
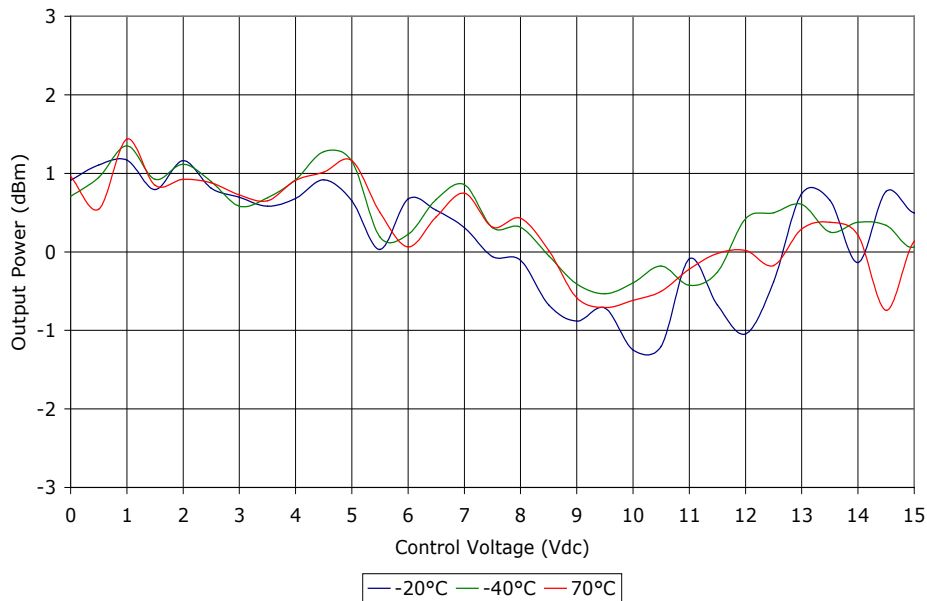
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS250500-5

WIDE BANDWIDTH

2500 - 5000 MHz

PERFORMANCE PLOTS



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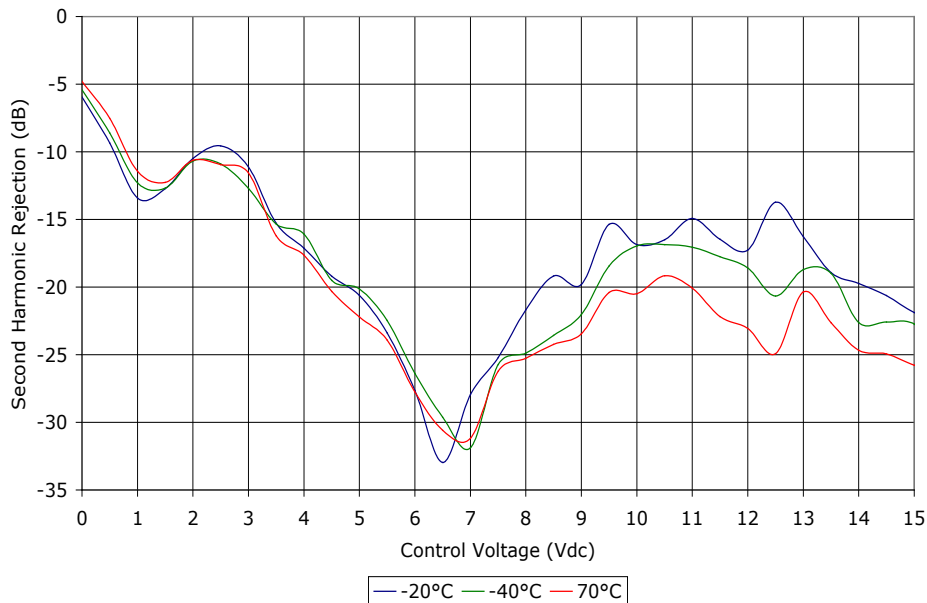
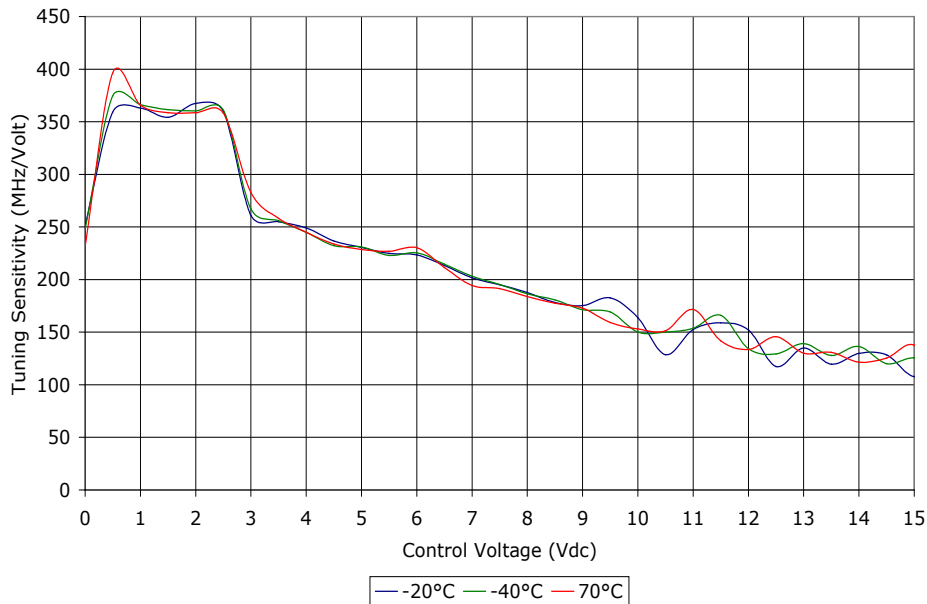


VOLTAGE CONTROLLED OSCILLATOR SURFACE MOUNT MODEL: DCYS250500-5

WIDE BANDWIDTH

2500 - 5000 MHz

PERFORMANCE PLOTS



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