

VOLTAGE CONTROLLED OSCILLATOR

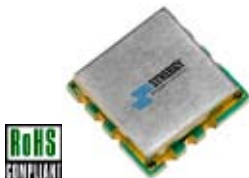
SURFACE MOUNT MODEL: DCO615712-5

OPTIMIZED BANDWIDTH

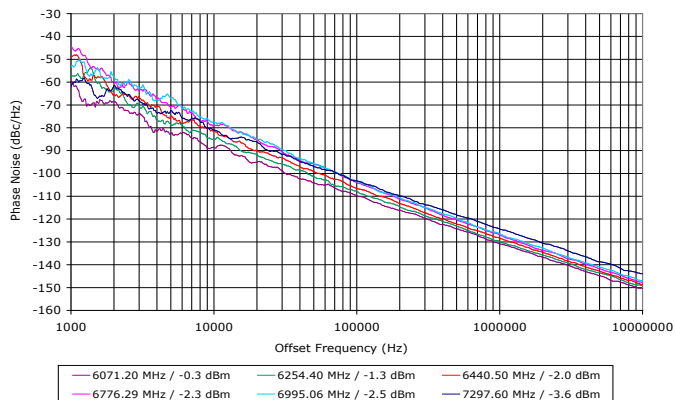
6150 - 7120 MHz

FEATURES:

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



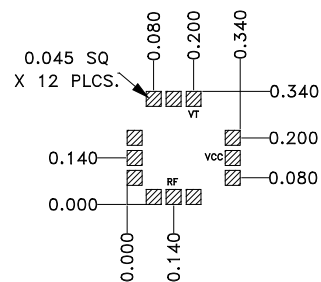
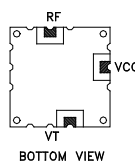
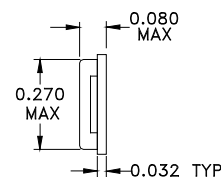
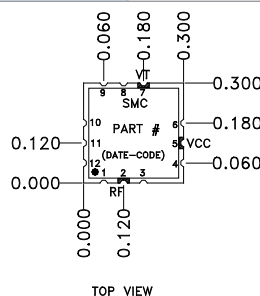
Phase Noise



SPECIFICATIONS

Frequency	6150 - 7120 MHz	
Tuning Voltage	See table below.	
Bias Voltage	+5 VDC @ 22 mA (Max.)	
Output Power	-5 dBm (Min.)	
Tuning Sensitivity	50 - 110 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	25 dB (Typ.)	
Frequency Pulling	12 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	12 MHz/V (Typ.)	
Tuning Port Capacitance	10 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-85
	100 kHz	-106
Operating Temperature Range	-40 to +85 °C	

Package # 343



DIMENSIONS ARE IN INCHES.
 TOLERANCES ON THREE DECIMAL PLACES = ± 0.015
 ALL UNLABELED PINS TO BE GROUNDED.
 PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300

Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	6150 (Max.)
5	6230 (Min.)
8	6500 (Min.)
12	6650 (Min.)

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage	+5.5 V
Tuning Voltage	+20 V
DC Voltage Applied to RF Out	± 25 V

This product is manufactured under one or more of the following patents: Approved: 5,180,810; 5,122,621; 5,390,346; 5,416,446; 5,630,754; 5,805,431; 6,325,623; 6,856,573; 7,088,189; 7,180,381; 7,185,591; 7,262,670; 7,265,642; 7,292,113
 Pending: 6549,3075; 60501371 & 65581796; 60527957 & 65538675; 60263481; 60564173; 60586083; 60661822; 60605791; EV31268034;
 11258768; 60622485 & 66710319; 1060732560736901; 60732787

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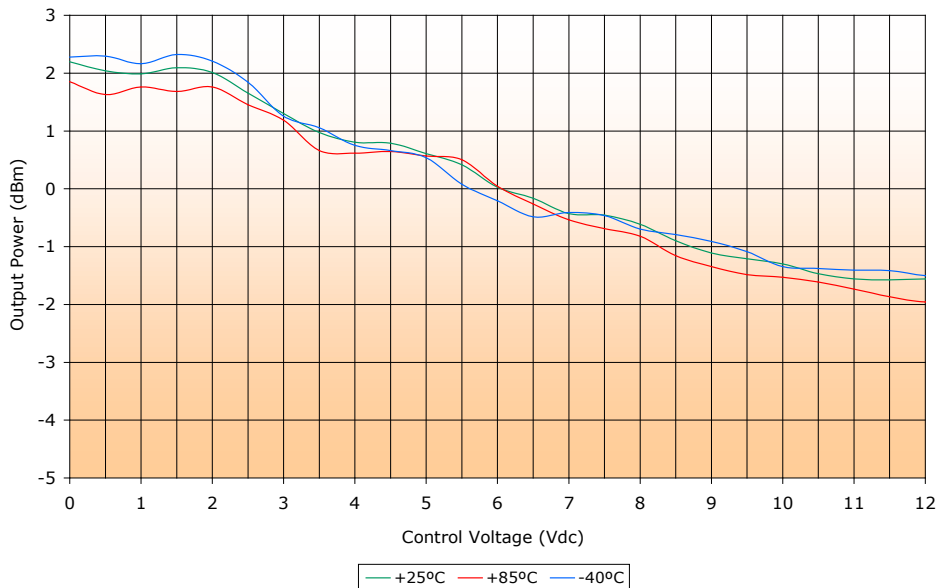
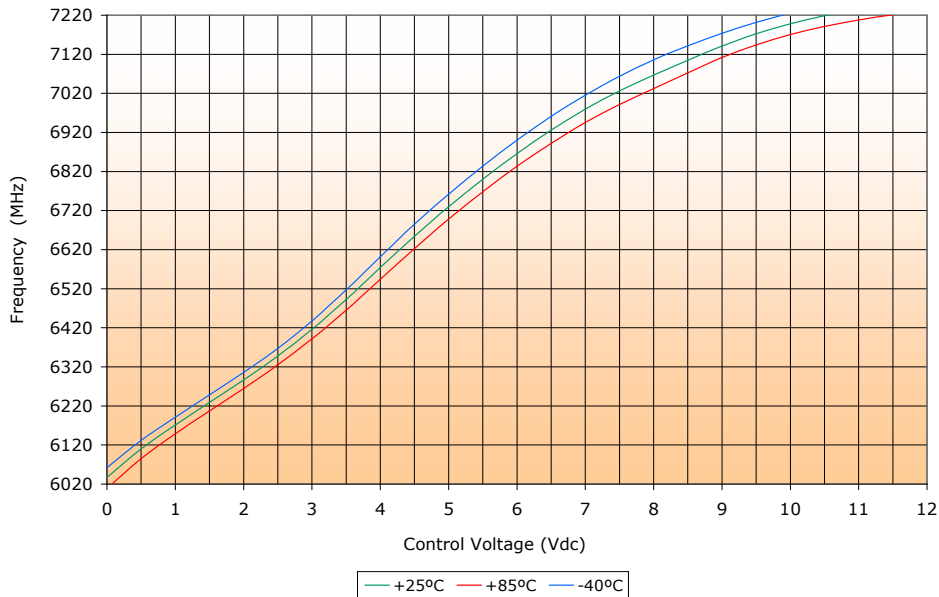
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OPTIMIZED BANDWIDTH

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PERFORMANCE PLOTS



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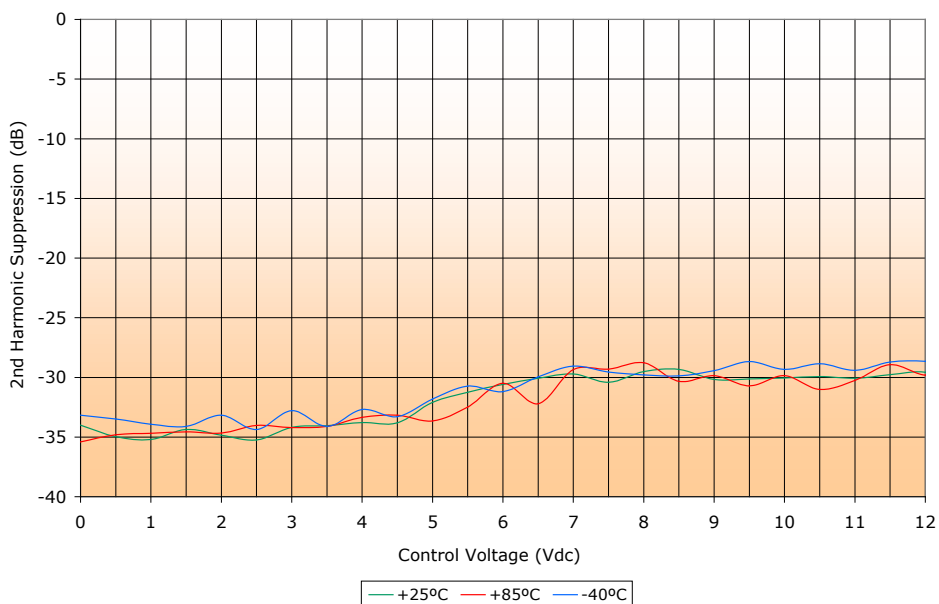
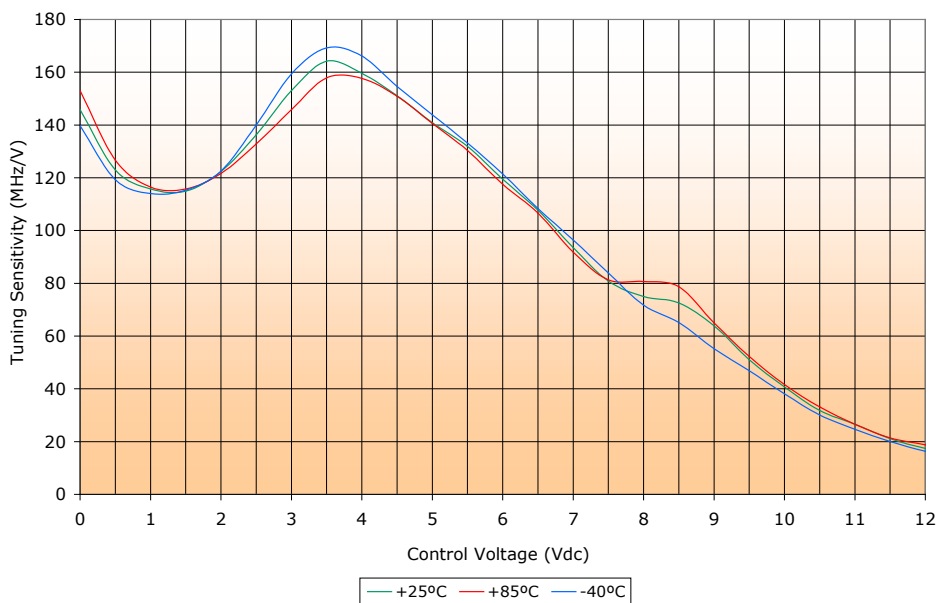
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