

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DTRO175317-5

DUAL TUNING PORTS

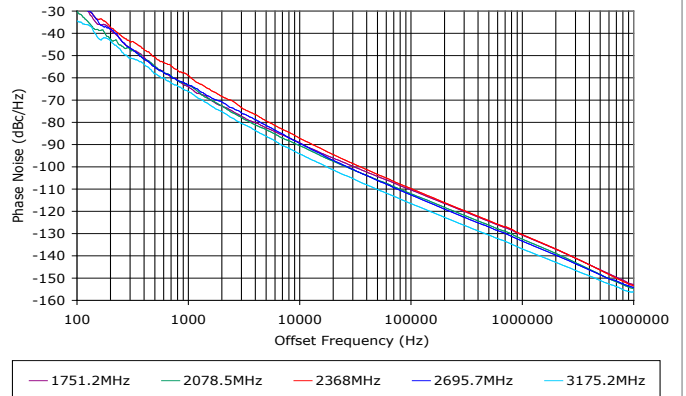
1750 - 3170 MHz

FEATURES:

- ▶ Exceptional Phase Noise Performance
- ▶ Wide Bandwidth
- ▶ Small Size, Surface Mount
- ▶ Lead Free Patented REL-PRO® Technology



Phase Noise



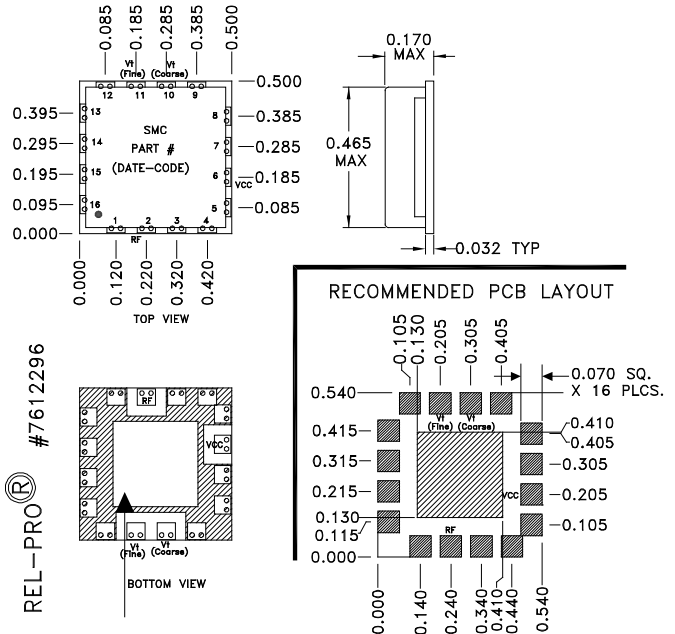
SPECIFICATIONS (Rev. A 08/02/07)

Frequency	1750 - 3170 MHz	
Tuning Voltage (VDC)	Course Tune	Fine Tune
	0.5 - 24	0 - 5
Bias Voltage	+5 VDC @ 40 mA (Max.)	
Output Power	+2 dBm (Min.)	
Tuning Sensitivity (MHz/V)	Course Tune	Fine Tune
	18 - 100 (Typ.)	8 - 40 (Typ.)
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	20 dB (Typ.)	
Frequency Pulling	20 MHz (Max. @ 1.75:1 VSWR)	
Frequency Pushing	8 MHz/V (Max.)	
Tuning Port Capacitance	Course Tune	Fine Tune
	150 pF (Typ.)	115 pF (Typ.)
Phase Noise @ 10 kHz	-90 dBc/Hz (Typ.)	
Operating Temperature Range	-40 to +85 °C	

Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C	
Bias Voltage	+5.5 V	
Tuning Voltage	Course Tune	Fine Tune
	+28 V	+6 V
DC Voltage Applied to RF Out	± 25 V	

Package # 339



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 & AN7300

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; 5,660,754; 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; EV31369834; 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

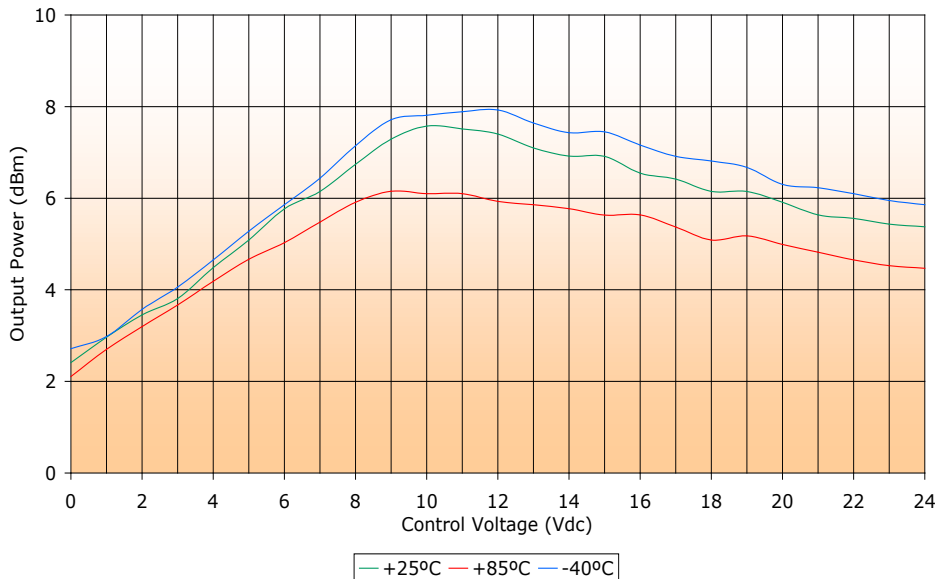
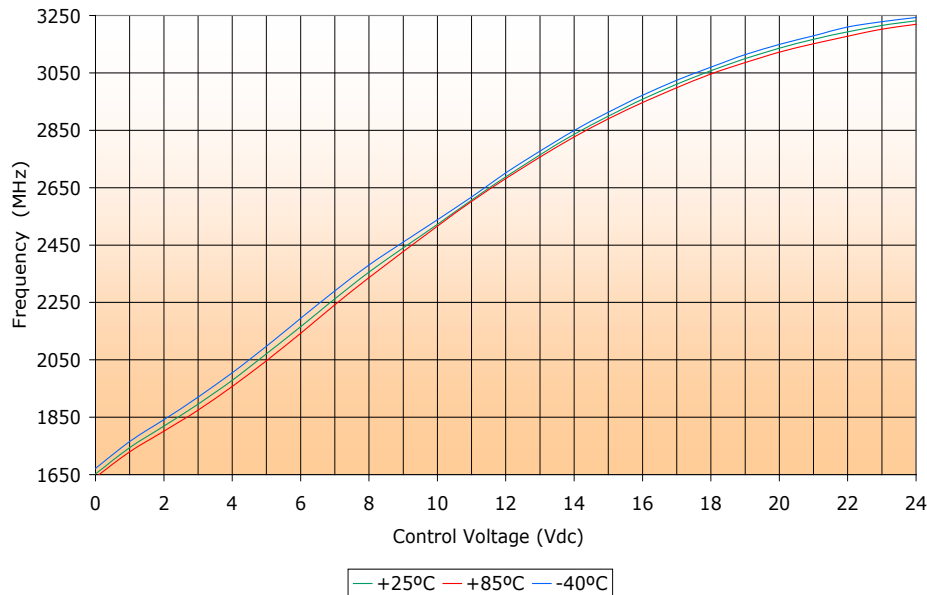
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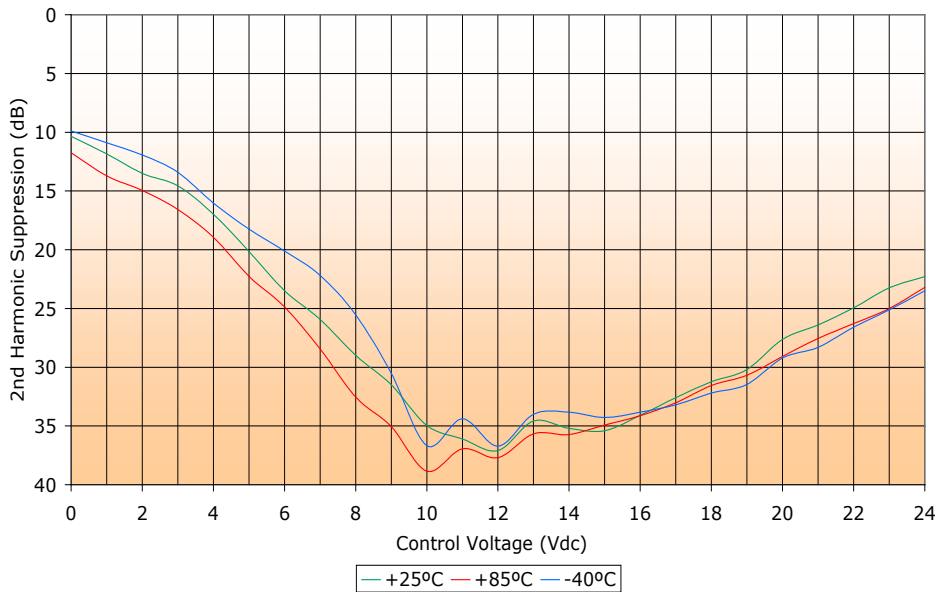
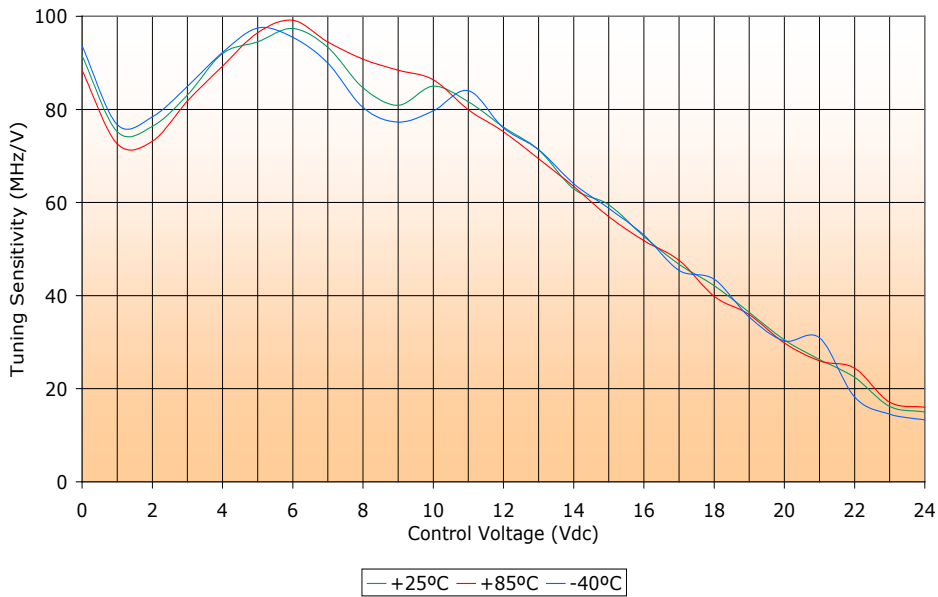
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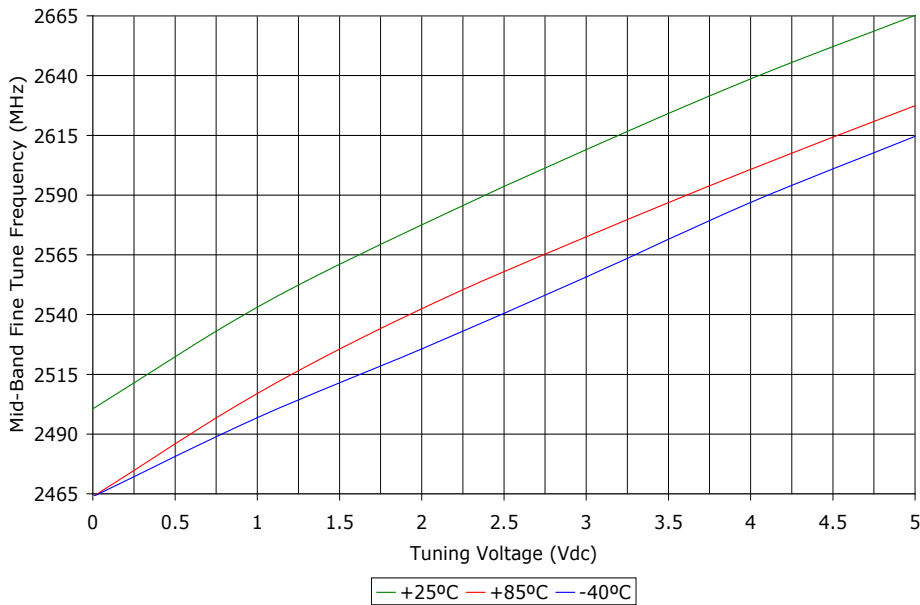
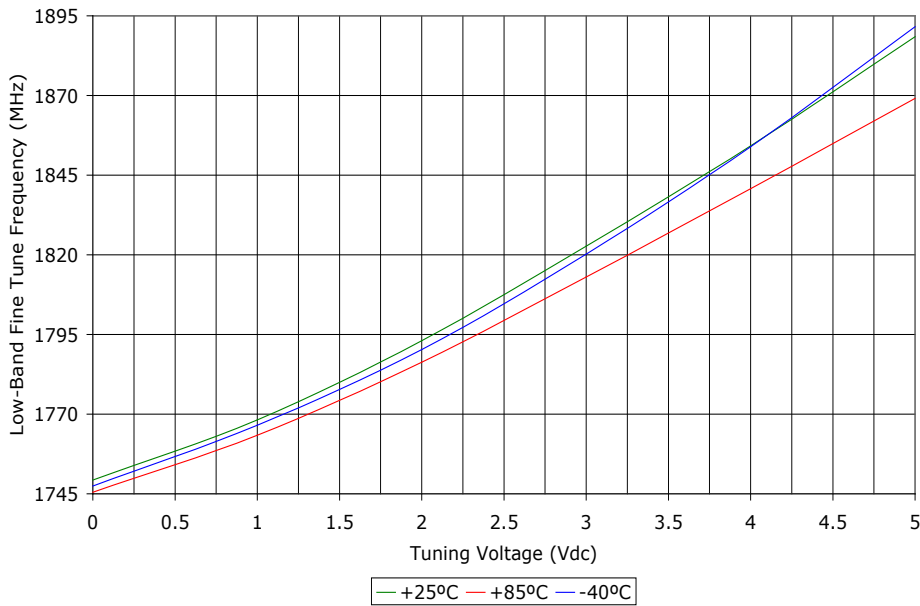
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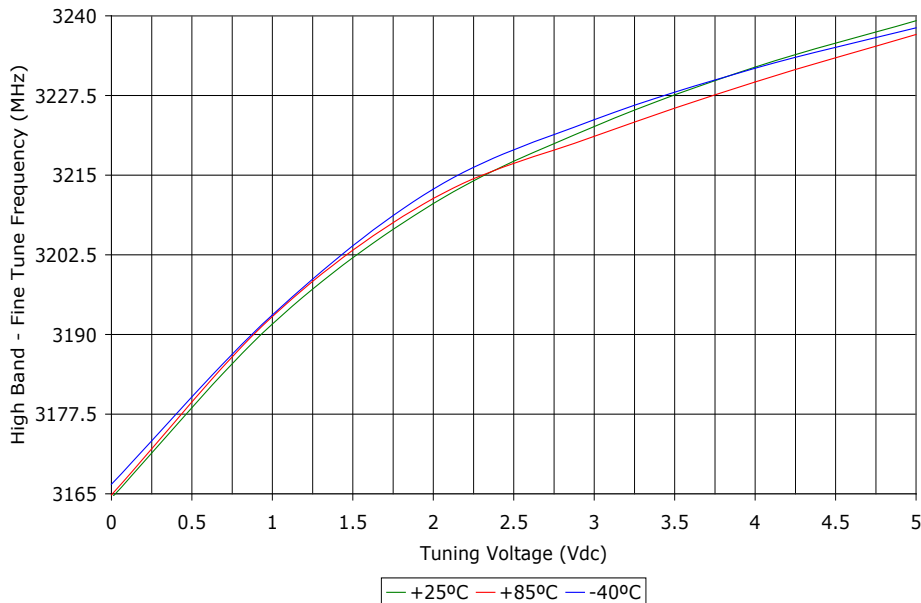


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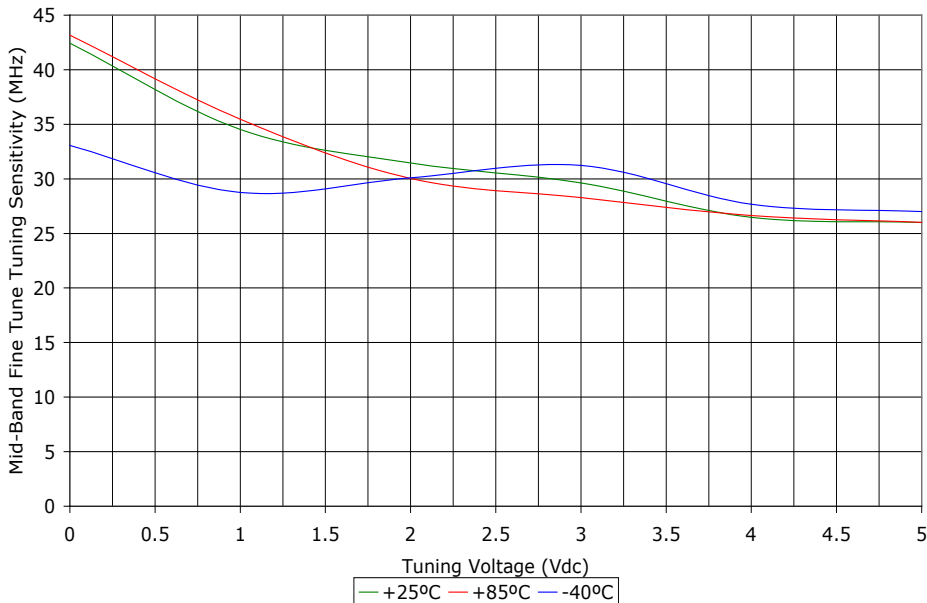
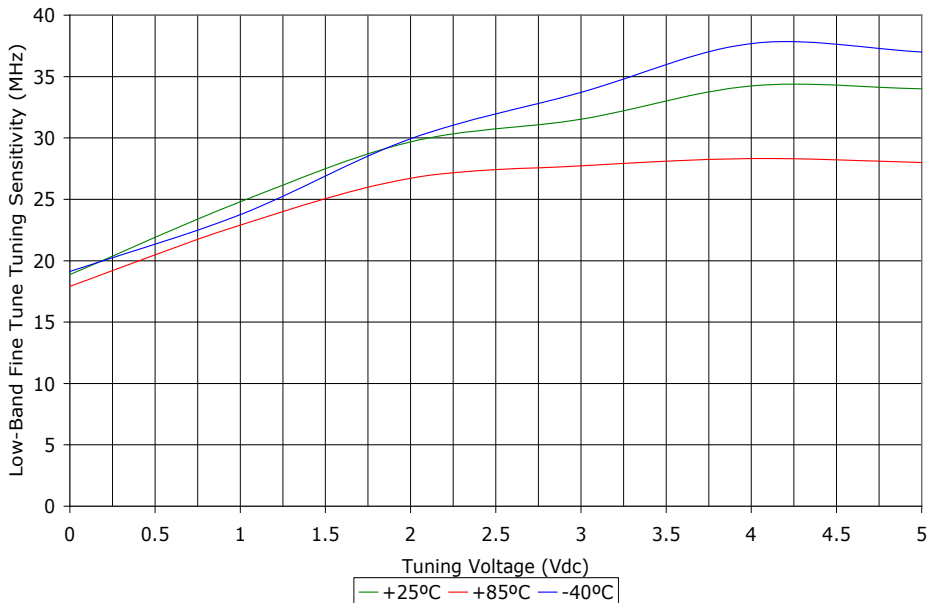
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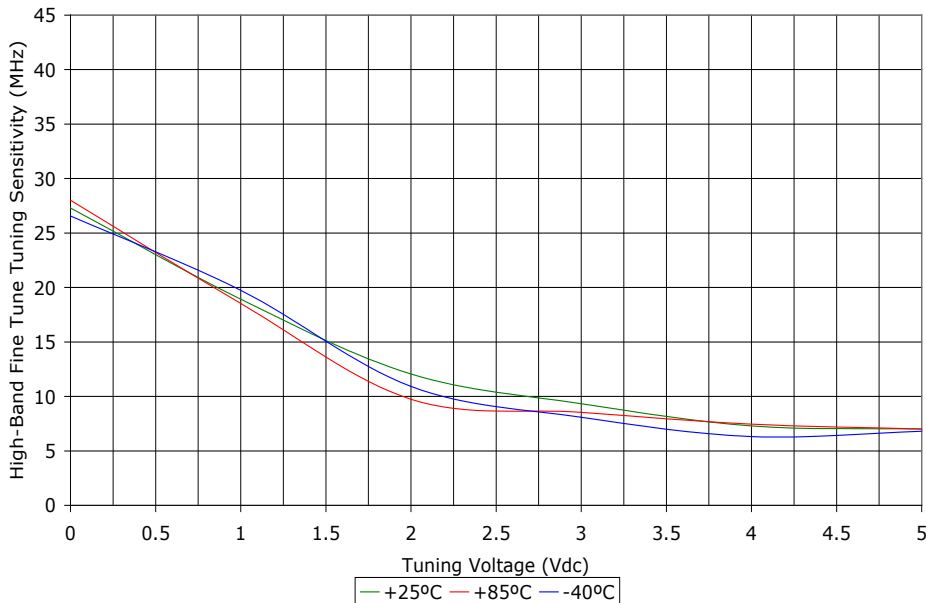
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