

VOLTAGE CONTROLLED OSCILLATOR

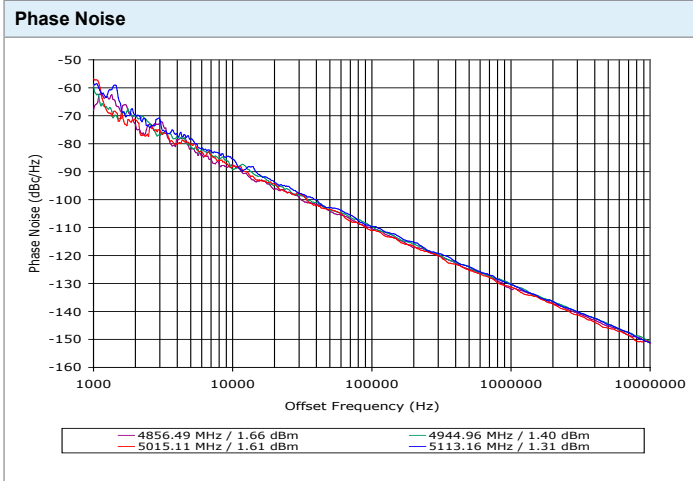
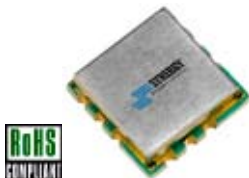
SURFACE MOUNT MODEL: DCO490517-5

OPTIMIZED BANDWIDTH

4900 - 5175 MHz

FEATURES:

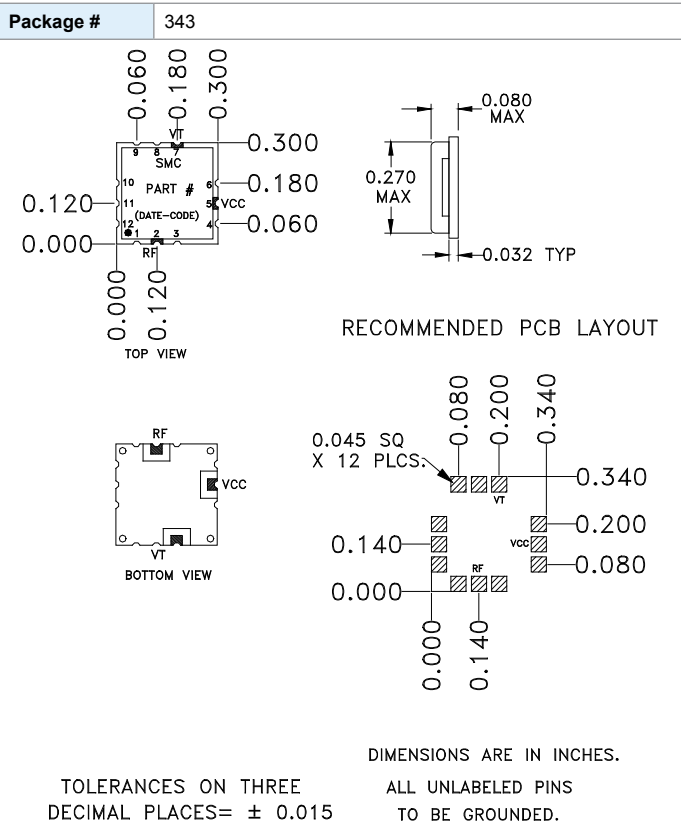
- ▶ Exceptional Phase Noise Performance
- ▶ Fast Tuning
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



SPECIFICATIONS

Frequency	4900 - 5175 MHz						
Tuning Voltage	See table below.						
Bias Voltage	+5 VDC @ 22 mA (Max.)						
Output Power	-1 dBm (Min.)						
Tuning Sensitivity	60 - 125 MHz/V (Typ.)						
Output Impedance	50 Ohms (Nom.)						
Harmonic Suppression	25 dB (Typ.)						
Frequency Pulling	10 MHz (Typ. @ 1.75:1 VSWR)						
Frequency Pushing	10 MHz/V (Typ.)						
Tuning Port Capacitance	10 pF (Typ.)						
Typical Phase Noise	<table border="1"> <thead> <tr> <th>Offset</th> <th>dBc/Hz</th> </tr> </thead> <tbody> <tr> <td>10 kHz</td> <td>-88</td> </tr> <tr> <td>100 kHz</td> <td>-110</td> </tr> </tbody> </table>	Offset	dBc/Hz	10 kHz	-88	100 kHz	-110
	Offset	dBc/Hz					
	10 kHz	-88					
100 kHz	-110						
Operating Temperature Range	-40 to +85 °C						

Preliminary



Guaranteed Tuning Specifications

Tuning Voltage (V)	Frequency (MHz)
0.5	4900 (Max.)
5	5175 (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; 7,263,642; 7,292,113
 Pending: 65/48,307; 60/50,1371 & 65/50,1796; 60/52,7937 & 65/52,8675; 60/56,3481; 60/56,4173; 60/58,0083; 60/60,1822; 60/60,5791; EV31268034;
 11/25/768; 60/62,2485 & 65/71,0219; 10/60,732560/736901; 60/73,2787



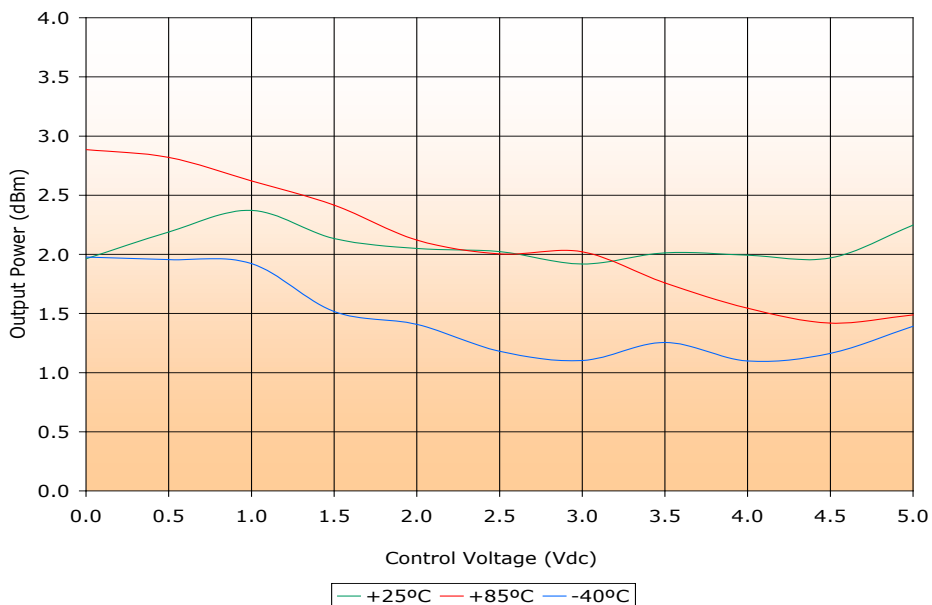
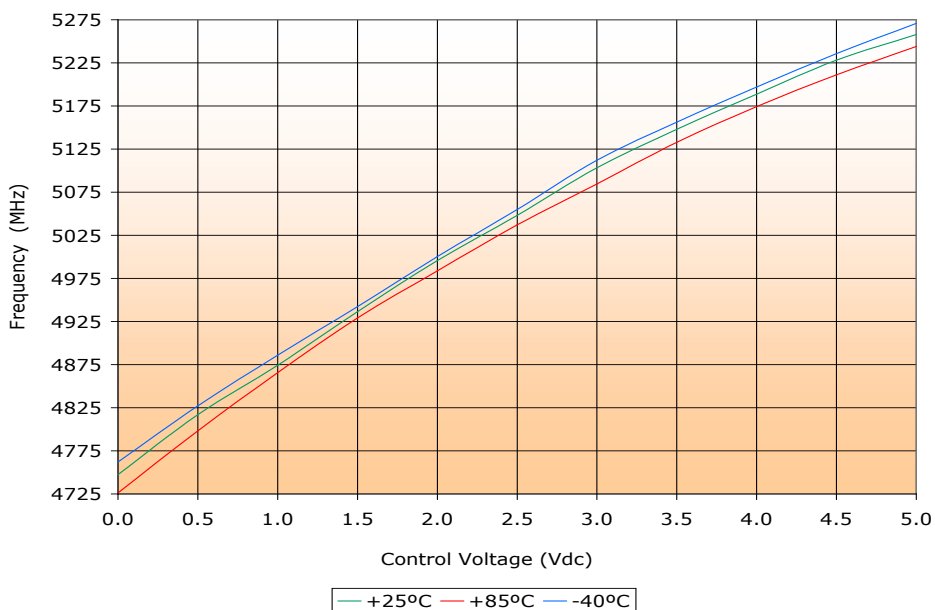
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PERFORMANCE PLOTS



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 Pending: 6549,3075; 60501371 & 65581796; 60507957 & 65538675; 60563481; 60564173; 60580083; 60661822; 60605791; EV31268034;
 RU258768; 60622485 & 66710212; RU60732560736901; 60732787

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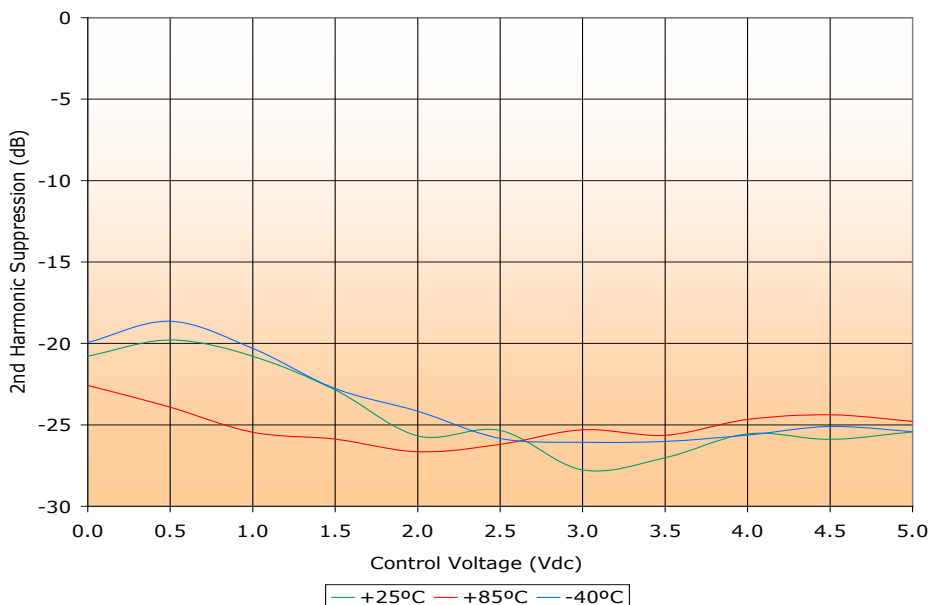
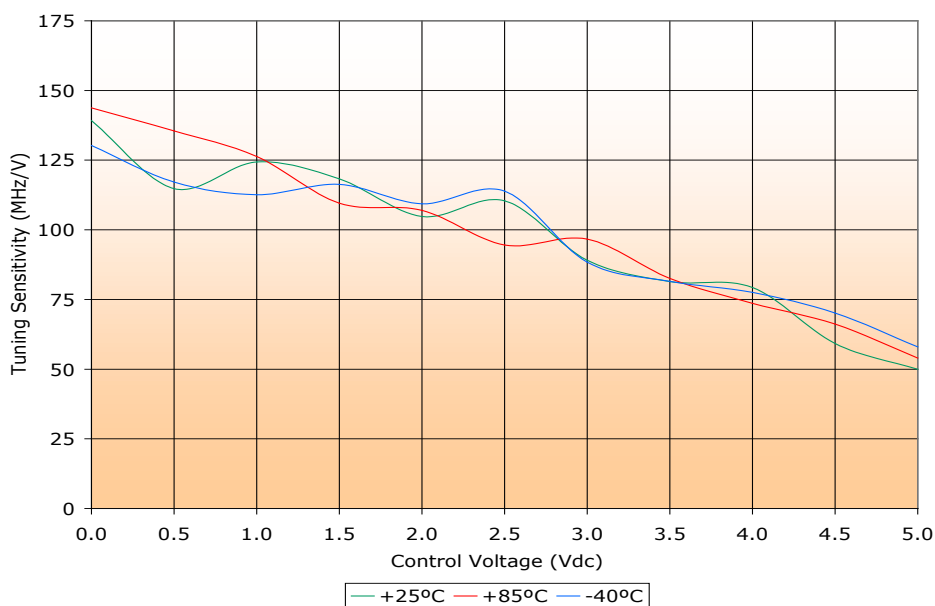
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