

VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS10002000-5

X to K BAND

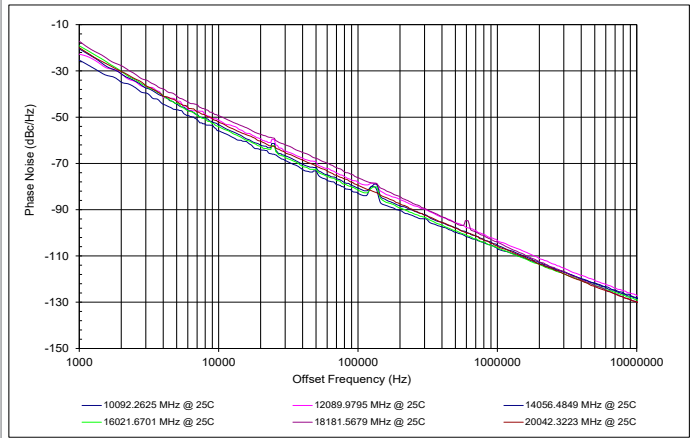
10000 - 20000 MHz

FEATURES:

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



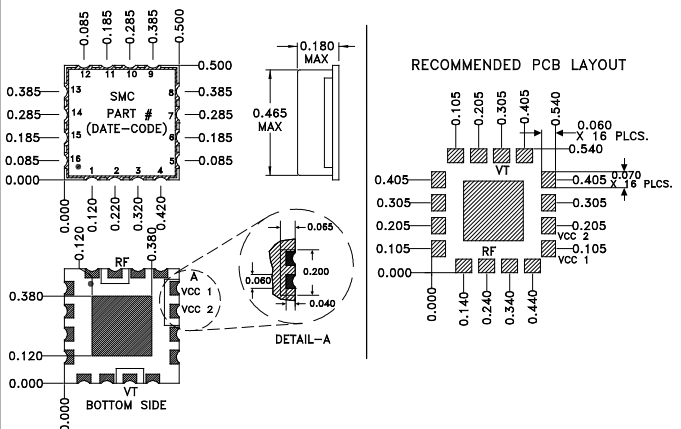
Phase Noise



SPECIFICATIONS (Rev. C 09/04/20)

Frequency	10000 - 20000 MHz	
Tuning Voltage	0.5 to 15 VDC	
Bias Voltage (Vcc 1)	-1.7 VDC @ 5 mA (Typ.)	
Bias Voltage (Vcc 2)	+5 VDC @ 190 mA (Max.)	
Output Power	-4 dBm (Min.)	
Tuning Sensitivity	300 - 1700 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	10 dB (Typ.)	
Sub-Harmonic	7 dB (Typ.)	
Frequency Pulling	144 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	140 MHz/V (Typ.)	
Tuning Port Capacitance	15 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-53
	100 kHz	-79
Operating Temperature Range	-40 to +85 °C	

Package # 454



Absolute Maximum Ratings

Storage Temp. Range	-55 to +125 °C
Bias Voltage (VCC 1)	+5.5 V
Tuning Voltage (VCC 2)	-1.9 V
DC Voltage Applied to RF Out	±25 V

Pin Out Config

RF Out	Pin 1
Vcc 1	Pin 5
Vcc 2	Pin 6
Vtune	Pin 10
All Others	Case Ground

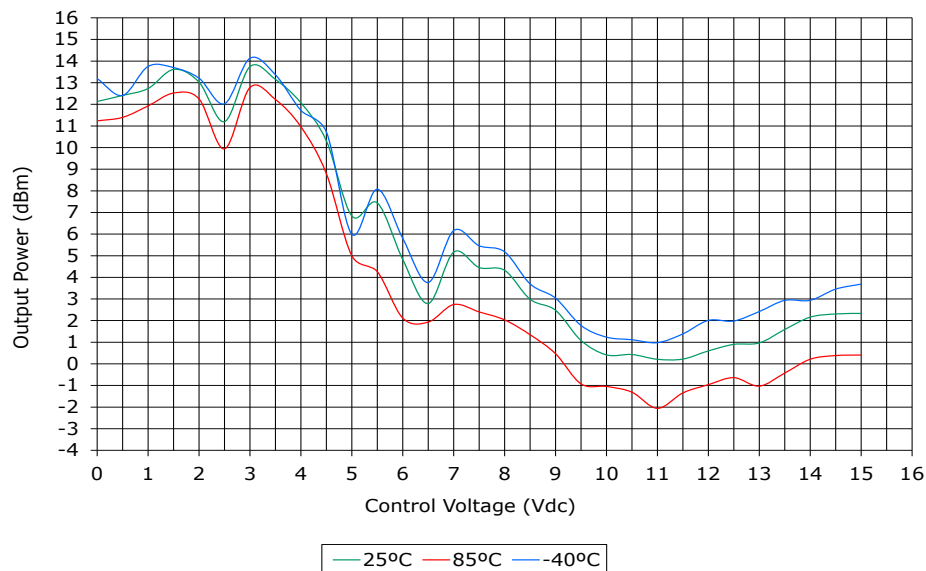
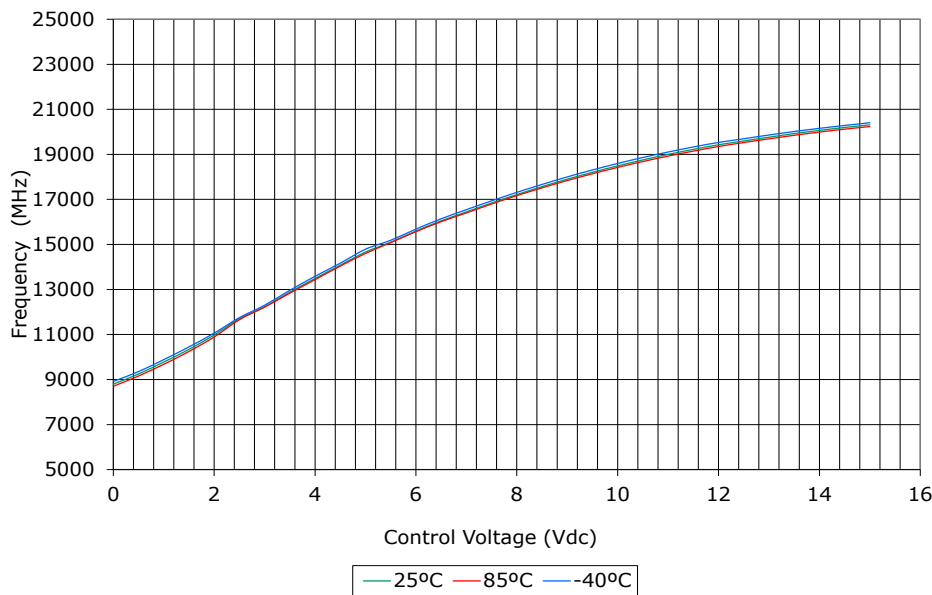
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PERFORMANCE PLOTS



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