

VOLTAGE CONTROLLED OSCILLATOR

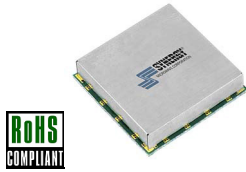
SURFACE MOUNT MODEL: DCYS6001200-5

C TO X BAND

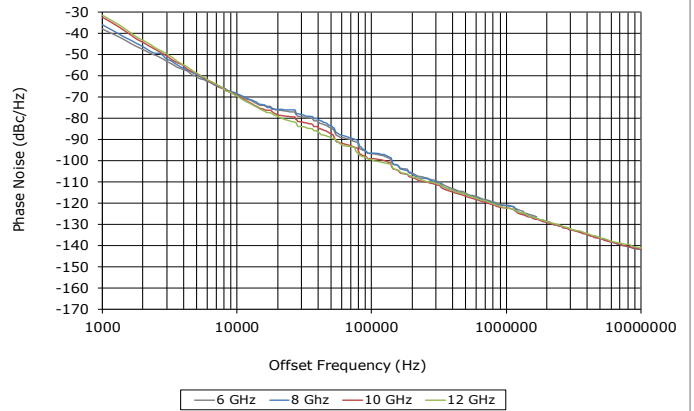
6000 - 12000 MHz

FEATURES:

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



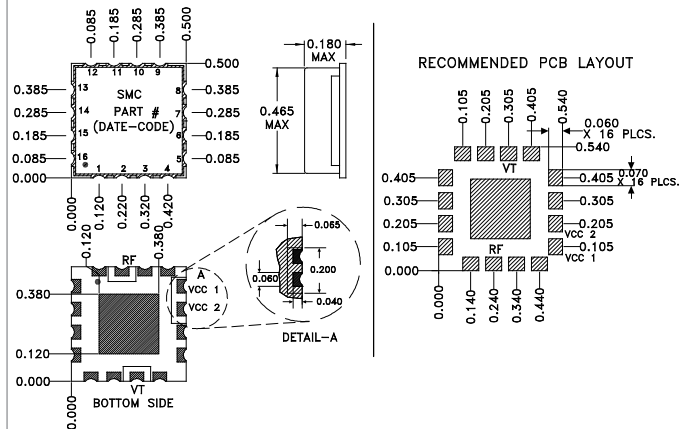
Phase Noise



SPECIFICATIONS (Rev. C 03/16/20)

Frequency	6000 - 12000 MHz	
Tuning Voltage	0.5-15 V	
Bias Voltage (Vcc 1)	+5 VDC @ 187 mA (Max.)	
Output Power	2 dBm (Min.)	
Tuning Sensitivity	300 - 900 MHz/V (Typ.)	
Output Impedance	50 Ohms (Nom.)	
Harmonic Suppression	17 dB (Typ.)	
Sub-Harmonic	10 dB (Typ.)	
Frequency Pulling	100 MHz (Typ. @ 1.75:1 VSWR)	
Frequency Pushing	32 MHz/V (Typ.)	
Tuning Port Capacitance	62 pF (Typ.)	
Typical Phase Noise	Offset	dBc/Hz
	10 kHz	-69
	100 kHz	-97
	1 MHz	-120
Operating Temperature Range	-40 to +85 °C	

Package # 454



PACKAGE MOUNTING: SEE APPLICATION NOTE AN7300

Absolute Maximum Ratings

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

Pin Out Config

RF Out	Pin 1
Vcc 1	Pin 5e
Vcc 2	No Connection
Vtune	Pin 10
All Others	Case Ground

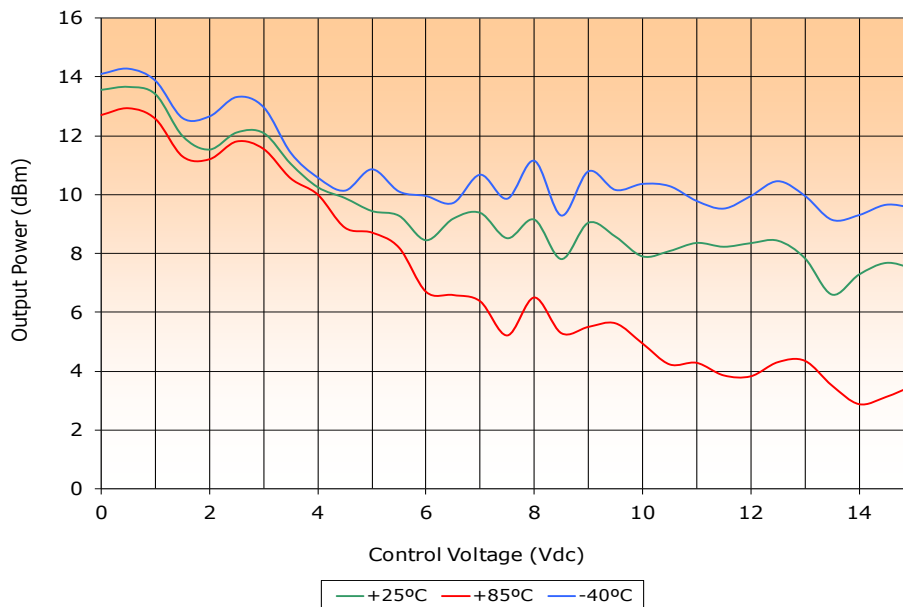
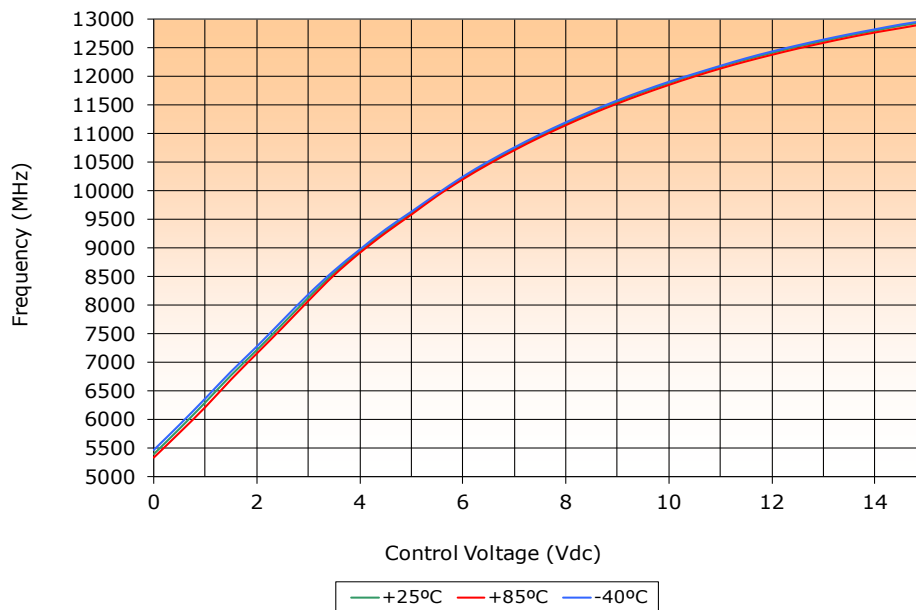
VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS6001200-5

C TO X BAND

6000 - 12000 MHz

PERFORMANCE PLOTS



VOLTAGE CONTROLLED OSCILLATOR

SURFACE MOUNT MODEL: DCYS6001200-5

C TO X BAND

6000 - 12000 MHz

PERFORMANCE PLOTS

