



## Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA  
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

### VCO2000

1900-2100MHz Voltage Controlled Oscillator

### Features and Benefits

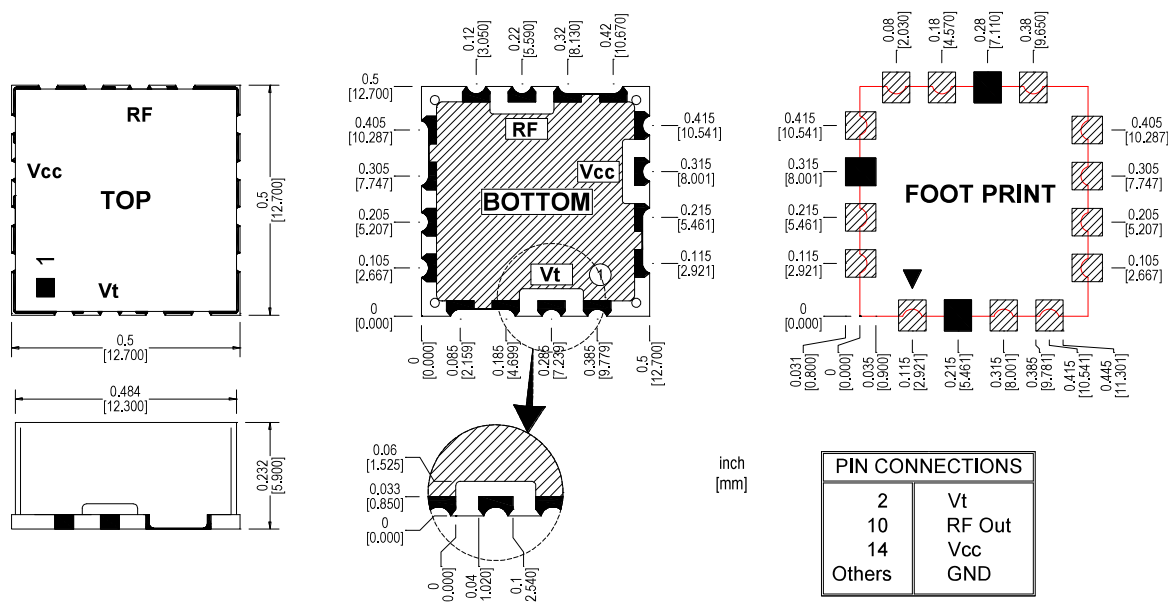
Frequency range: 1900-2100MHz  
Supply voltage: 6.0V  
Current: 30mA Typ.  
Output power: +7dBm Typ.  
Tuning voltage: 0V to +12V  
Phase noise: -122dBc/Hz@100KHz  
Operating temperature: -40°C to +85°C  
Size: 12.7x12.7x5.9mm

### Typical Applications

SATCOM  
Receiver  
Radio  
MMDS  
Radar  
Test Equipment  
WiMax

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-4





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## Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1900		2100
Power Supply (Vcc)	Voltage	Vdc		6.0	
	Current	mA		30	
Output Power		dBm	+4.0	+7.0	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-103	
Phase Noise @100kHz offset		dBc / Hz		-122	
Tuning Voltage (Vt)		V	0		+12
Tuning Voltage Sensitivity (Kv)		MHz / V		22-30	
2nd Harmonic Suppression		dBc			-8.0
Pushing Figure		MHz / V		2	
Pulling Figure		MHz		3	
Input Capacitance		pF		47	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85