# Dynamic Engineers Inc.

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

#### VCO2000

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### **Features and Benefits**

Frequency range: 1900-2100MHz

Supply voltage: 6.0V Current: 30mA Typ.

Output power: +7dBm Typ. Tuning voltage: 0V to +12V

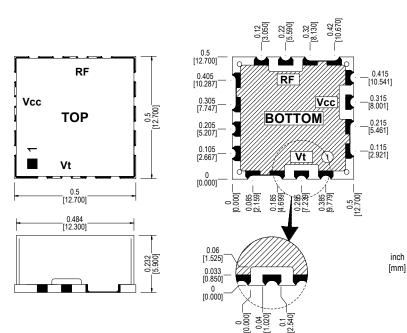
Phase noise: -122dBc/Hz@100KHz Operating temperature: -40°C to +85°C

Size: 12.7x12.7x5.9mm

### **Typical Applications**

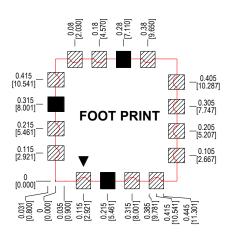
SATCOM Receiver Radio MMDS Radar Test Equipment WiMax

## **Mechanical Drawing & Pin Connections**



## **Drawing No:**

MD140084-4



PIN CONNECTIONS					
Vt					
RF Out					
Vcc					
GND					



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# **Specifications**

Parameter Parame		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		Ω		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		°C	-40		+85