

# Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com **VCO1212BQ-800MHz-1600MHz-A** 800-1600MHz SMD VCO

#### **Features and Benefits**

Frequency Range:800-1600MHz

Supply Voltage:5.0V Current: 50mA Max.

Output power: +6.0dBm Typ. Tuning Voltage: 0-18V

Phase noise: -93dBc/Hz@10KHz Operating temperature: -40°C--+80°C

Size:12.7x12.7x3.9mm

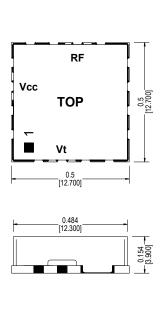
### **Typical Applications**

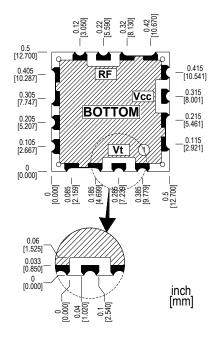
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

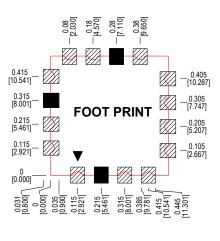
## **Mechanical Drawing & Pin Connections**

**Drawing No:** 

MD140084-2







PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			



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## **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	800		1600
Power Supply (Vcc)	Voltage	Vdc		+5.0	
	Current	mA		35	50
Output Power		dBm	+3.0	+6.0	
Output Impedance		Ω		50	
Phase Noise @10KHz offset		dBc / Hz		-93	
Phase Noise	@100KHz offset	dBc / Hz		-115	
Tuning Voltage (Vt)		V	0		+18
Tuning Voltage Sensitivity (Kv)		MHz / V		75-90	
2nd Harmonic Suppression		dBc			-7
Pushing Figure (5 ± 0.25V)		MHz / V			20
Pulling Figure (12dB RL)		MHz			35
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+80