

## Dynamic Engineers Inc.

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

# VCO1212BQ-1700MHz-2150MHz-A 1700-2150MHz SMD VCO

### **Features and Benefits**

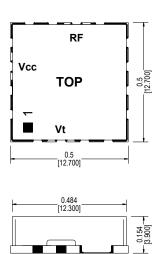
Frequency Range:1700-2150MHz Supply Voltage:5.0V Current: 35mA Max. Output power: +6.0dBm Typ. Tuning Voltage: 0-16V Phase noise: -88dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm

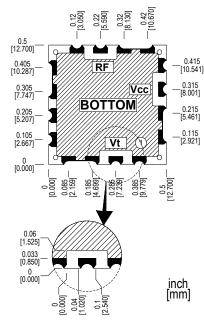
#### **Typical Applications**

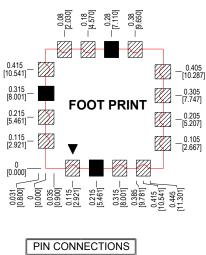
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

### **Mechanical Drawing & Pin Connections**

Drawing No: MD140084-2







FIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			

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Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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## **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1700		2150
Power Supply (Vcc)	Voltage	Vdc		5.0	
	Current	mA			35
Output Power		dBm	+3.0	+6.0	+9.0
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-88	-82
Phase Noise	@100kHz offset	dBc / Hz		-110	-103
Tuning Voltage (Vt)		V	0		+16
Tuning Voltage Sensitivity (Kv)		MHz / V		22-80	
2nd Harmonic Suppression		dBc			-7
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		15	
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85