

Dynamic Engineers Inc.

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

VCO1212BQ-2000MHz-3800MHz-A 2000-3800MHz SMD VCO

Features and Benefits

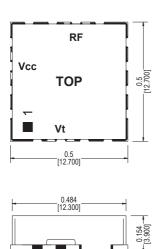
Frequency Range:2000-3800MHz Supply Voltage:5.0V Current: 70mA Max. Output power: +7.5dBm Max. Tuning Voltage: 0.5-16V Phase noise: -108dBc/Hz@100KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm

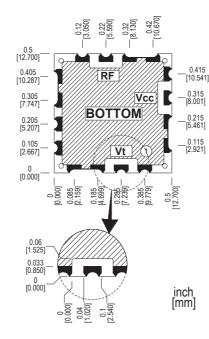
Typical Applications

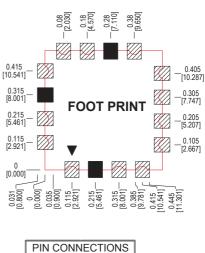
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2







PIN CONNECTIONS					
Vt					
RF Out					
Vcc					
GND					

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	2000		3800
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			70
Output Power		dBm	+0.5	+4.0	+7.5
Output Impedance		Ω		50	
Phase Noise	@10kHz offset	dBc / Hz		-83	
Phase Noise	@100kHz offset	dBc / Hz		-108	
Tuning Voltage (Vt)		V	0.5		+16
Tuning Voltage Sensitivity (Kv)		MHz / V		100-235	
2nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		10	
Input Capacitance		pF		100	
Operating Temperature Range		С°С	-40		+85