



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-B

2000-3800MHz SMD VCO

Features and Benefits

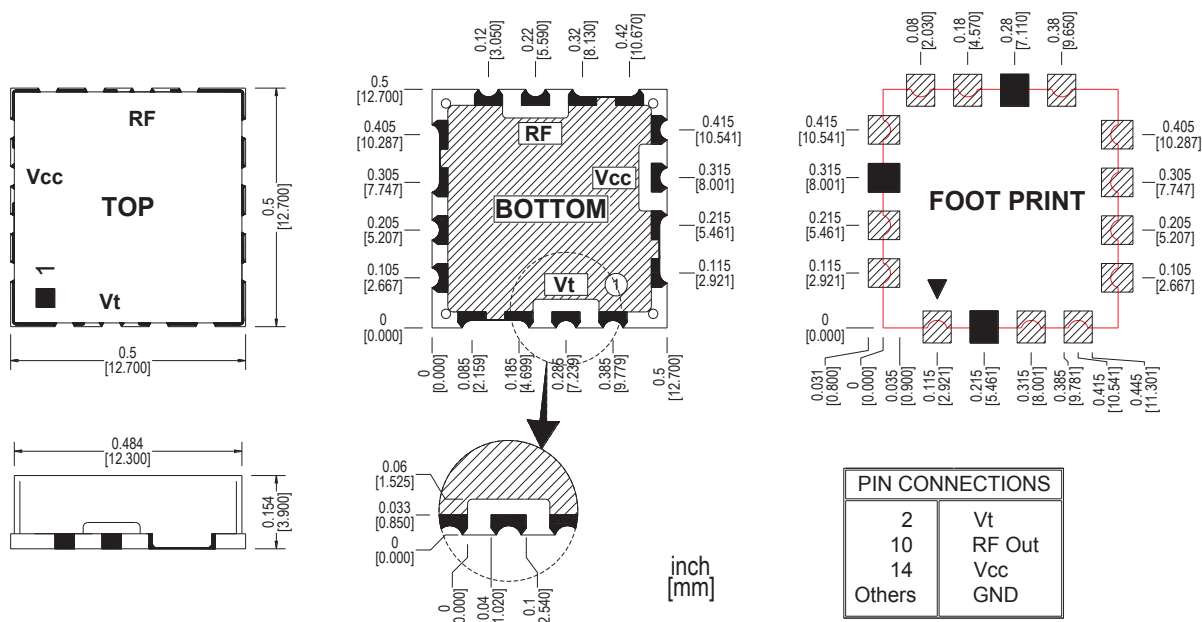
Frequency Range:2000-3800MHz
Supply Voltage:5.0V
Current: 70mA Max.
Output power: +8.5dBm Max.
Tuning Voltage: 0.5-16V
Phase noise: -106dBc/Hz@100KHz
Operating temperature: -40°C--+85°C
Size:12.7x12.7x3.9mm

Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2000		3800
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			70
Output Power		dBm	+1.5	+5.0	+8.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-81	
Phase Noise @100kHz offset		dBc / Hz		-106	
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		$^{\circ}\text{C}$	-40		+85