



## Dynamic Engineers Inc.

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### VCO1212BQ-1330MHz-A

1330MHz Voltage Controlled Oscillator

## Features and Benefits

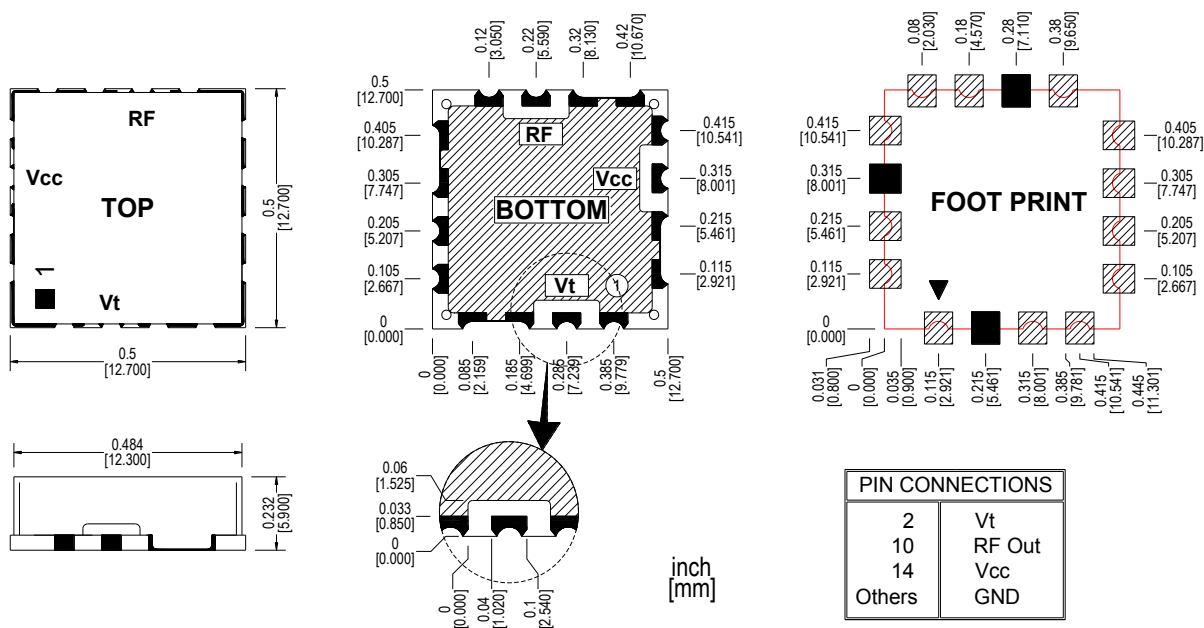
Frequency range: 1330MHz  
Supply voltage: 6.5V  
Current: 30mA Typ.  
Output power: +10dBm Max.  
Tuning voltage: 0.5V to 4.5V  
Phase noise: -128dBc/Hz@100KHz  
Operating temperature: -40°C to +85°C  
Size: 12.7x12.7x5.9mm

## Typical Applications

SATCOM  
Receiver  
Radio  
MMDS  
Radar  
Test Equipment  
WiMax

## Mechanical Drawing & Pin Connections

Drawing No: MD140084-3





## Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz		1330	
Power Supply (Vcc)	Voltage	Vdc		6.5	
	Current	mA		30	
Output Power		dBm	+6.0	+8.0	+10.0
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-110	
Phase Noise @100kHz offset		dBc / Hz		-128	
Tuning Voltage (Vt)		V	+0.5		+4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		15-20	
2nd Harmonic Suppression		dBc		-15	-8.0
Pushing Figure		MHz / V		1	
Pulling Figure		MHz		2	
Input Capacitance		pF		47	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85