



# Dynamic Engineers Inc.

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**VCO1212BQ-1350MHz-2100MHz-A**

1350-2100MHz SMD VCO

## Features and Benefits

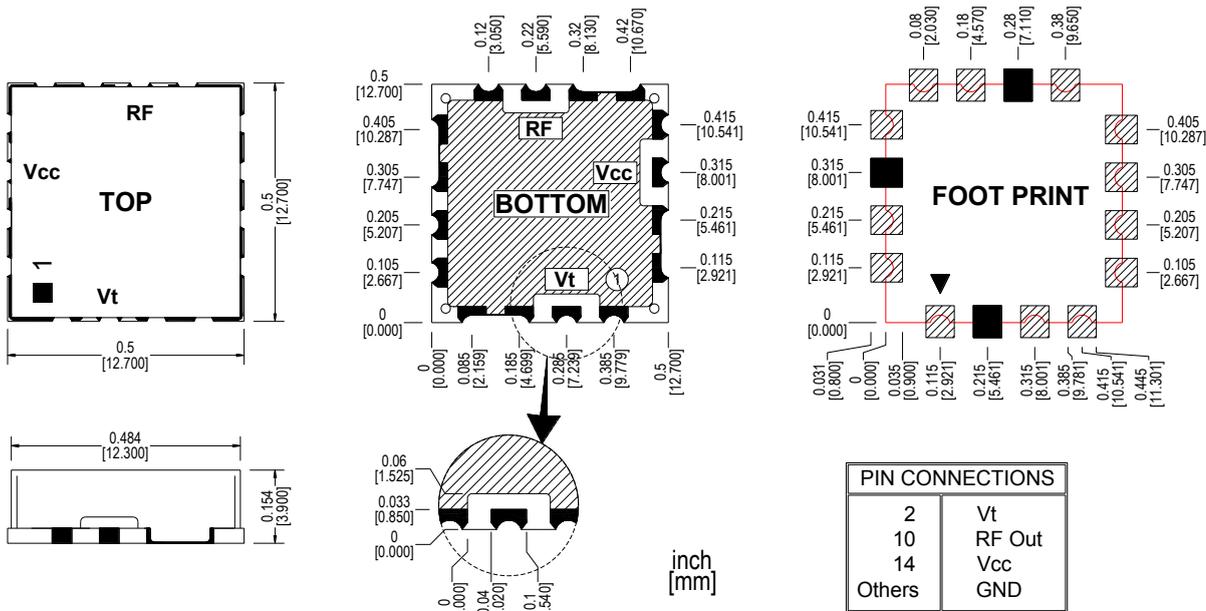
- Frequency Range:1350-2100MHz
- Supply Voltage:8.0V
- Current: 40mA Max.
- Output power: +10.5dBm Max.
- Tuning Voltage: 0.5-18.5V
- Phase noise: -108dBc/Hz@100KHz
- Operating temperature: -40°C--+85°C
- Size:12.7x12.7x3.9mm

## Typical Applications

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

## Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





### Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1350		2100
Power Supply (Vcc)	Voltage	Vdc		8	
	Current	mA			40
Output Power		dBm	+3.5	+7.0	+10.5
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-93	
Phase Noise @100kHz offset		dBc / Hz		-108	
Tuning Voltage (Vt)		V	0.5		+18.5
Tuning Voltage Sensitivity (Kv)		MHz / V		41-75	
2nd Harmonic Suppression		dBc		-10	
Pushing Figure		MHz / V		5	
Pulling Figure (12dB)		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85