



## Dynamic Engineers Inc.

Website: [www.DynamicEngineers.com](http://www.DynamicEngineers.com)  
Email: [Inquiry@DynamicEngineers.com](mailto:Inquiry@DynamicEngineers.com)

### VCO1212BQ-3400MHz-A

3400MHz SMD VCO\_Voltage Controlled Oscillator

### Features and Benefits

Frequency Range: 3400MHz

Supply Voltage: 5V

Current: 27mA Max.

Output power: 0dBm Typ.

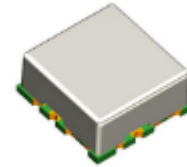
Tuning Voltage: 0.5-4.5V

Phase noise: -100dBc/Hz@10KHz

Operating temperature: -40°C--+85°C

Size: 12.7x12.7x3.9mm

Package type: SMD



### Typical Applications

SATCOM

Receiver

Test Equipment

Radar

Point-to-Point

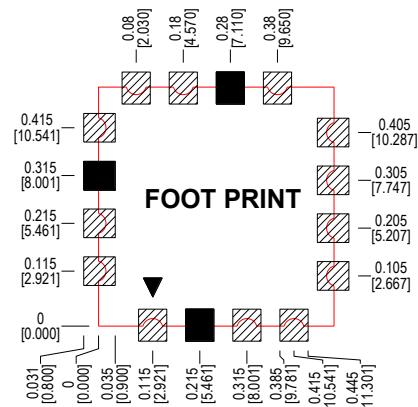
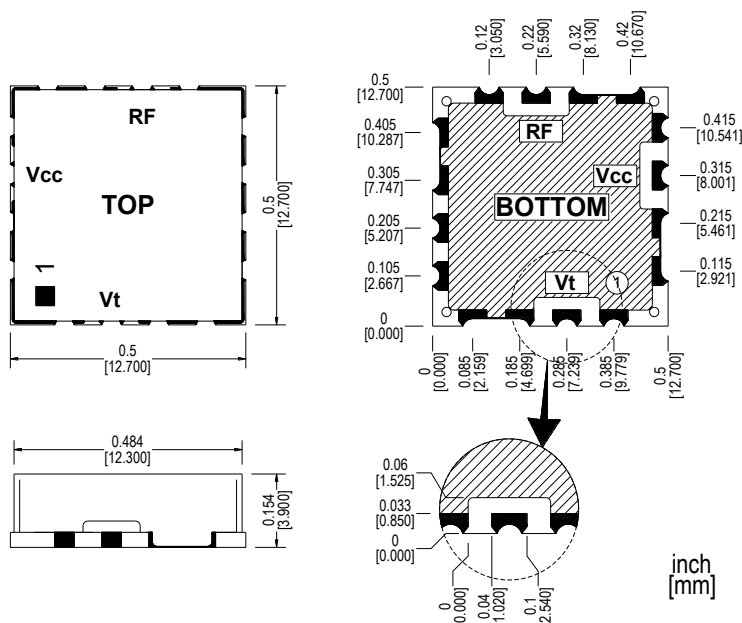
Radio

MMDS

WiMax

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-2



PIN CONNECTIONS	
2	Vt
10	RF Out
14	Vcc
Others	GND



## Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz		3400	
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		27	
Output Power		dBm		0	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-100	
Phase Noise @100kHz offset		dBc / Hz		-120	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		35	
2 <sup>nd</sup> Harmonic Suppression		dBc		-15	
Pushing Figure		MHz / V		2	
Pulling Figure		MHz		3.5	
Input Capacitance		pF		18	
Operating Temperature Range		°C	-40		+85