



## Dynamic Engineers Inc.

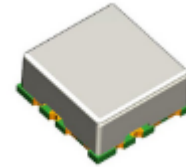
Website: [www.DynamicEngineers.com](http://www.DynamicEngineers.com)  
Email: [Inquiry@DynamicEngineers.com](mailto:Inquiry@DynamicEngineers.com)

### VCO1212BQ-902MHz-922MHz-A

902-922MHz SMD VCO\_Voltage Controlled Oscillator

### Features and Benefits

Frequency Range: 902-922MHz  
Supply Voltage: 8V  
Current: 26mA Typ.  
Output power: +5dBm Typ.  
Tuning Voltage: 0.5-10V  
Phase noise: -125dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x5.9mm  
Package type: SMD

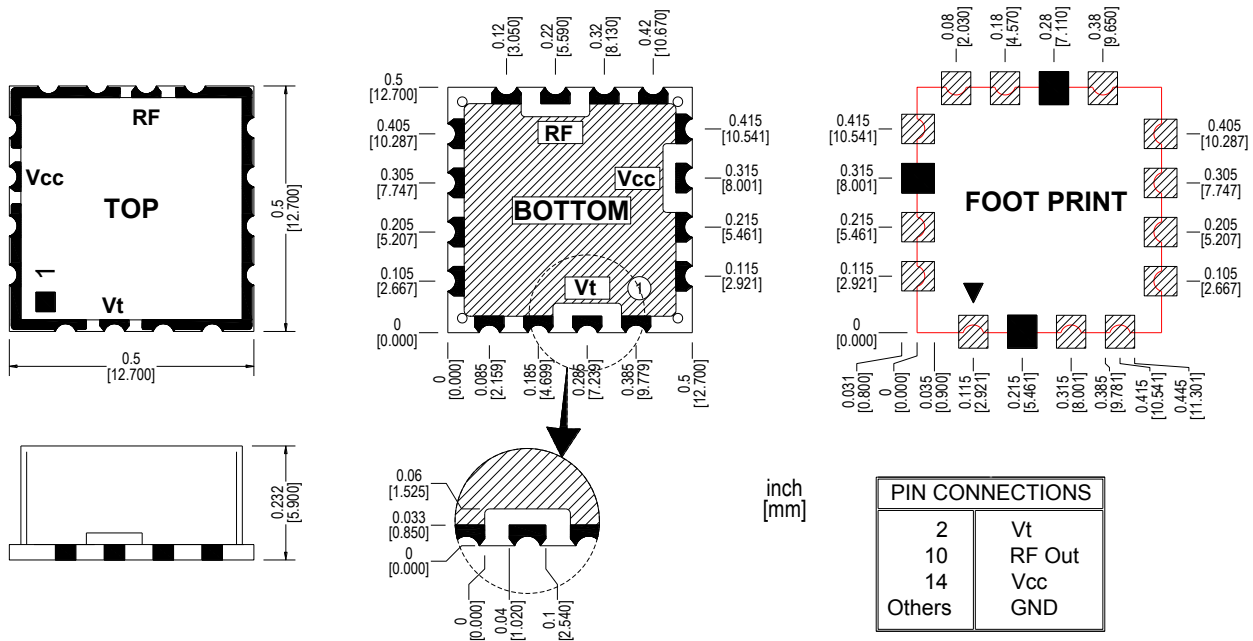


### Typical Applications

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

### Mechanical Drawing & Pin Connections

Drawing No: MD140084-3



inch  
[mm]



## Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	902		922
Power Supply (Vcc)	Voltage	Vdc		+8	
	Current	mA		26	
Output Power		dBm		+5	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-125	
Phase Noise @100kHz offset		dBc / Hz		-145	
Tuning Voltage (Vt)		V	0.5		10
Tuning Voltage Sensitivity (Kv)		MHz / V		4	
2 <sup>nd</sup> Harmonic Suppression		dBc		-15	
Pushing Figure		MHz / V		0.1	
Pulling Figure		MHz		0.1	
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85