



## Dynamic Engineers Inc.

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**VCO1212BQ-1480MHz-1720MHz-A**

1480-1720MHz SMD VCO

### Features and Benefits

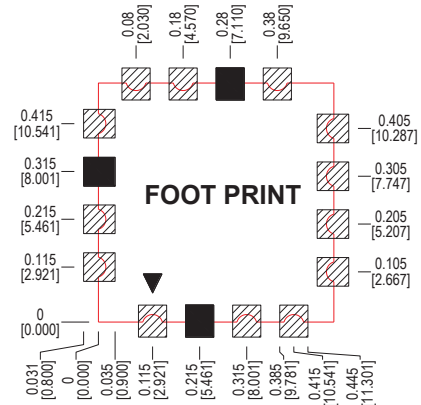
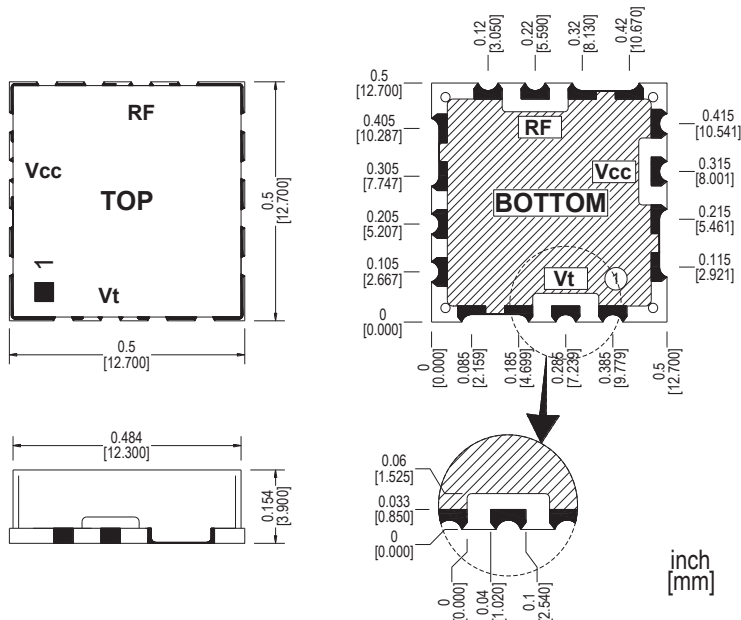
- Low phase noise
- Linear tuning characteristics
- Low pushing / Low pulling
- Aqueous washable

### 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	1480		1720
Power Supply (Vcc)	Voltage	Vdc		8	
	Current	mA		28	
Output Power		dBm	-3.5		+3.5
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-100	
Phase Noise @100kHz offset		dBc / Hz		-118	
Tuning Voltage (Vt)		V	+1.5		+13
Tuning Voltage Sensitivity (Kv)		MHz / V		35	
2nd Harmonic Suppression		dBc		-12	
Pushing Figure		MHz / V		2	
Pulling Figure		MHz		4	
Input Capacitance		pF		47	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85