



## Dynamic Engineers Inc.

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**VCO1212BQ-1700MHz-2500MHz-A**

1700-2500MHz SMD VCO

### Features and Benefits

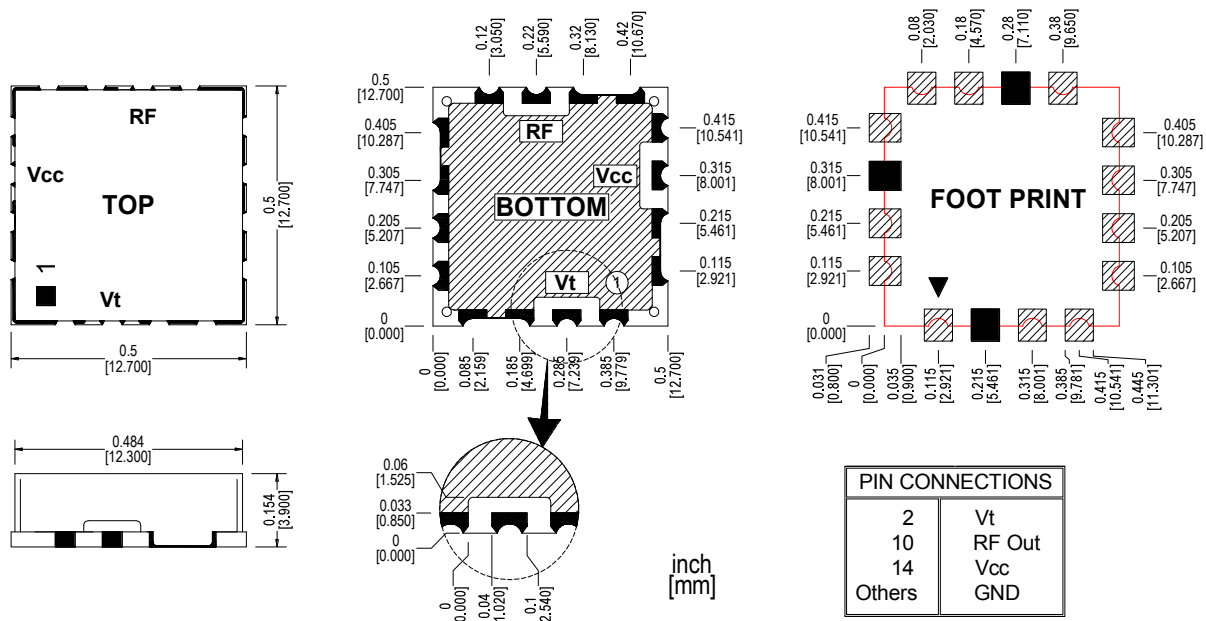
Frequency Range: 1700-2500MHz  
Tuning Voltage: 0-15V  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x3.9mm

### 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	1700		2500
Power Supply (Vcc)	Voltage	Vdc		10	
	Current	mA			50
Output Power		dBm	+2	+7	+12
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-88	
Phase Noise @100kHz offset		dBc / Hz		-108	
Tuning Voltage (Vt)		V	0		+15
Tuning Voltage Sensitivity (Kv)		MHz / V		65-85	
2nd Harmonic Suppression		dBc		-10	
Pushing Figure		MHz / V		10	
Pulling Figure		MHz		25	
Input Capacitance		pF		33	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85