



## Dynamic Engineers Inc.

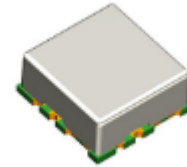
Website: [www.DynamicEngineers.com](http://www.DynamicEngineers.com)  
Email: [Inquiry@DynamicEngineers.com](mailto:Inquiry@DynamicEngineers.com)

J7 C%&/%6 E!+% A<n!+( , A<n!5

İ FHİ İ MHz SMD VCO\_Voltage Controlled Oscillator

### Features and Benefits

Frequency Range: 713-748MHz  
Supply Voltage: 5V  
Current: 22mA Typ.  
Output power: +5.5dBm Typ.  
Tuning Voltage: 1-4V  
Phase noise: -112dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x3.9mm  
Package type: SMD

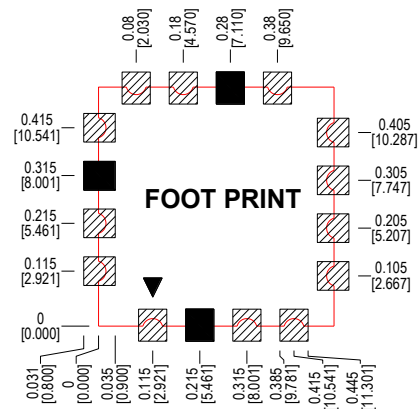
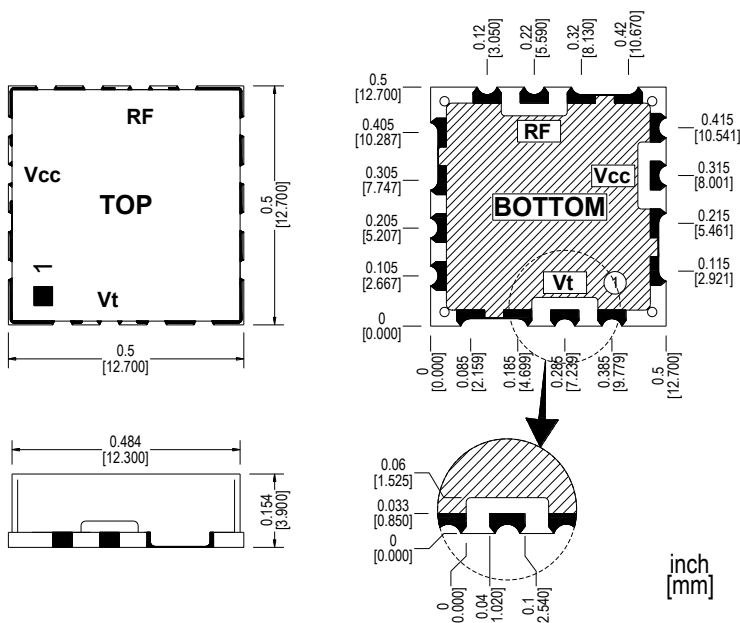


### Typical Applications

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	713		748
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		22	
Output Power		dBm		+5.5	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-112	
Phase Noise @100kHz offset		dBc / Hz		-132	
Tuning Voltage (Vt)		V	1		4
Tuning Voltage Sensitivity (Kv)		MHz / V		31	
2 <sup>nd</sup> Harmonic Suppression		dBc		-14	
Pushing Figure		MHz / V		1	
Pulling Figure		MHz		1	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85