



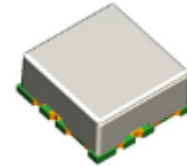
## Dynamic Engineers Inc.

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J7 C%&/%6 E!' \* ) A < n!( \$) A < n!5  
H í Ĩ Ę MHz SMD VCO\_ Voltage Controlled  
Oscillator

### Features and Benefits

Frequency Range: 365-405 MHz  
Supply Voltage: 5V  
Current: 15 mA Typ.  
Output power: +5 dBm Typ.  
Tuning Voltage: 0.5-4.5 V  
Phase noise: -107 dBc/Hz @ 10 KHz  
Operating temperature: -40°C to +85°C  
Size: 12.7 x 12.7 x 3.9 mm  
Package type: SMD

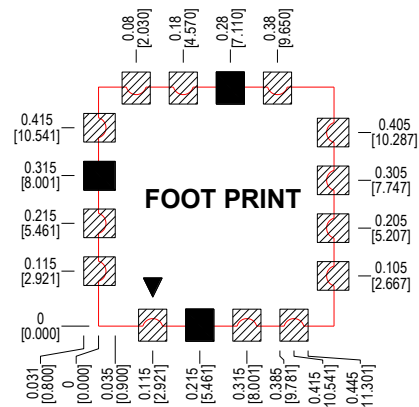
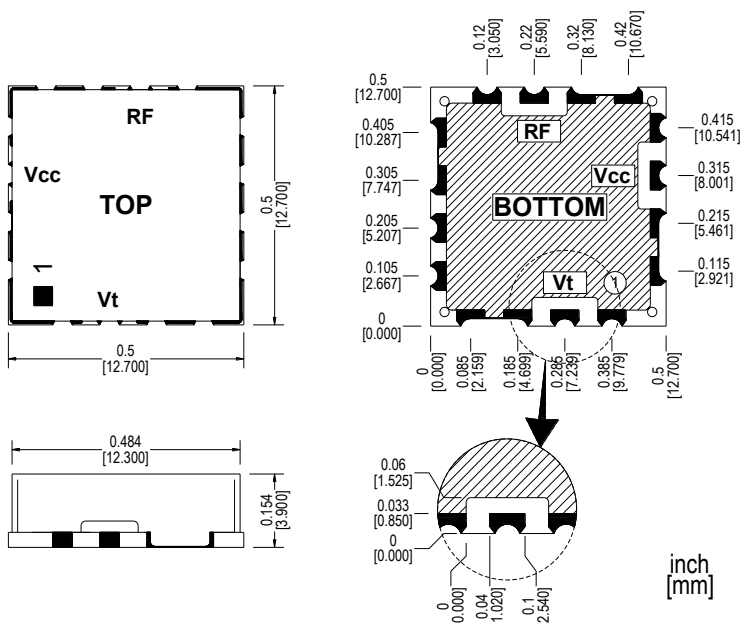


### Typical Applications

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	365		405
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		15	25
Output Power		dBm	+3	+5	+7
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-107	-102
Phase Noise @100kHz offset		dBc / Hz		-127	-122
Tuning Voltage (Vt)		V	0		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		7.6-16.5	
2 <sup>nd</sup> Harmonic Suppression		dBc		-22	-15
Pushing Figure		MHz / V		4	
Pulling Figure		MHz		0.87	
Input Capacitance		pF		1000	
Operating Temperature Range		°C	-40		+85