



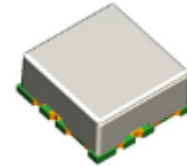
## Dynamic Engineers Inc.

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J7 C%&/%6 E!&\$&) A <n!& \$ \$A <n!5  
2025-2400MHz SMD VCO\_Voltage Controlled  
Oscillator

### Features and Benefits

Frequency Range: 2025-2400MHz  
Supply Voltage: 6V  
Current: 28mA Typ.  
Output power: +5dBm Typ.  
Tuning Voltage: 1-14V  
Phase noise: -106dBc/Hz@10KHz  
Operating temperature: -40°C--+85°C  
Size: 12.7x12.7x3.9mm  
Package type: SMD

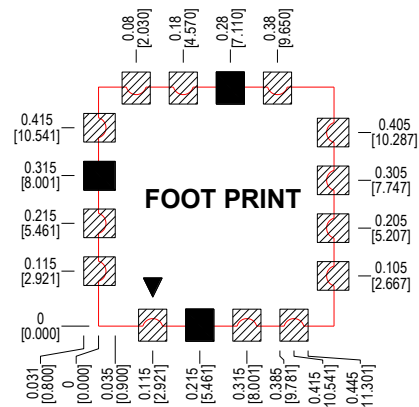
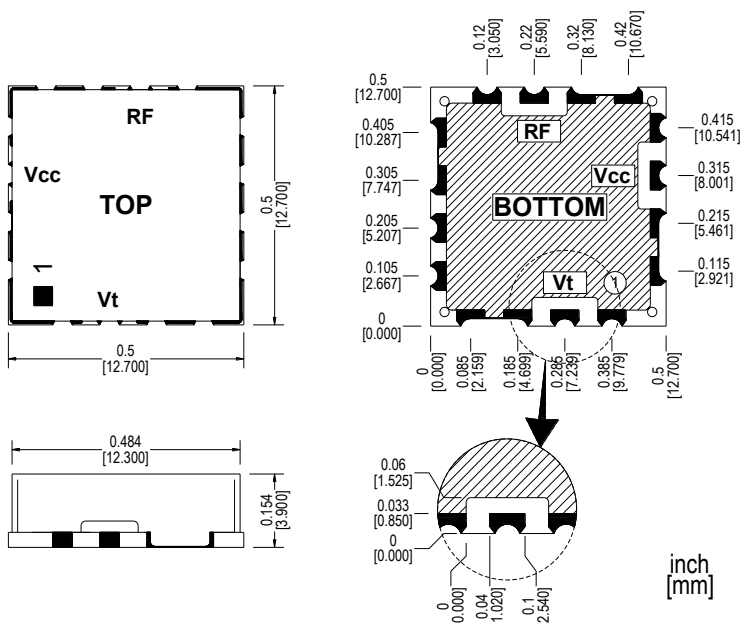


### Typical Applications

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	2025		2400
Power Supply (Vcc)	Voltage	Vdc		+6	
	Current	mA		28	
Output Power		dBm		+5	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-106	
Phase Noise @100kHz offset		dBc / Hz		-126	
Tuning Voltage (Vt)		V	1		14
Tuning Voltage Sensitivity (Kv)		MHz / V		40	
2 <sup>nd</sup> Harmonic Suppression		dBc		-15	
Pushing Figure		MHz / V		1	
Pulling Figure		MHz		2	
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85