



## Dynamic Engineers Inc.

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FG4 MHz SMD VCO\_Voltage Controlled Oscillator

### Features and Benefits

Frequency Range: 1248MHz

Supply Voltage: 5V

Current: 24mA Typ.

Output power: +7dBm Typ.

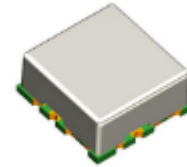
Tuning Voltage: 0.5-4.5V

Phase noise: -125dBc/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

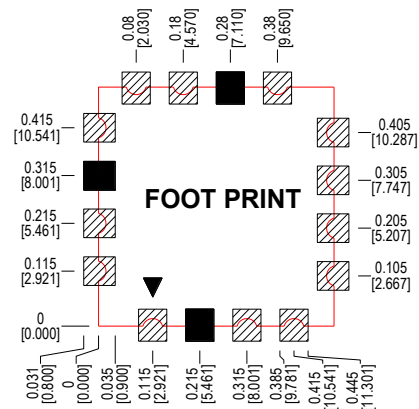
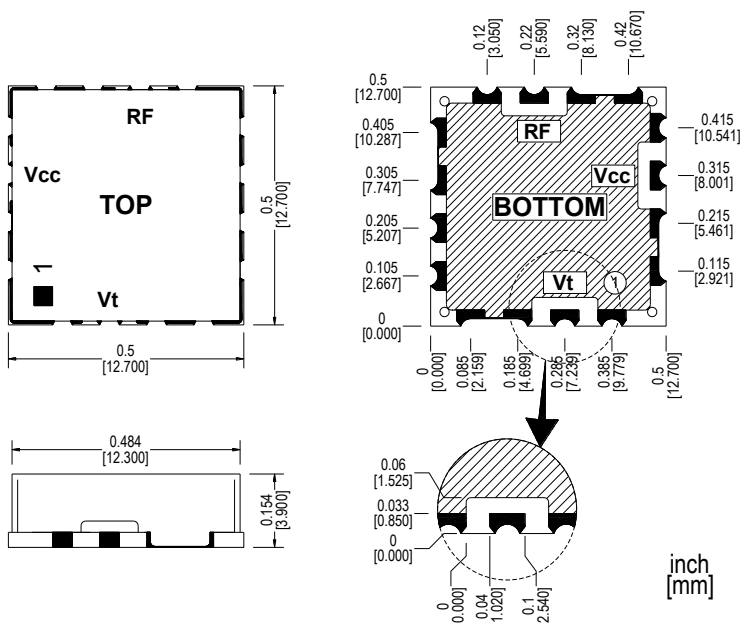
Radio

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		1248	
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		24	
Output Power		dBm		+7	
Output Impedance		$\Omega$		50	
Phase Noise @10kHz offset		dBc / Hz		-125	
Phase Noise @100kHz offset		dBc / Hz		-143	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		3.5	
2 <sup>nd</sup> Harmonic Suppression		dBc		-20	
Pushing Figure		MHz / V		0.1	
Pulling Figure		MHz		1	
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85