



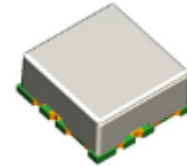
Dynamic Engineers Inc.

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1Î HË HMHz SMD VCO_ Voltage Controlled
Oscillator

Features and Benefits

Frequency Range: 163-173MHz
Supply Voltage: 5V
Current: 11mA Typ.
Output power: +4dBm Typ.
Tuning Voltage: 1-4V
Phase noise: -115dBc/Hz@10KHz
Operating temperature: -40°C--+85°C
Size: 12.7x12.7x3.9mm
Package type: SMD

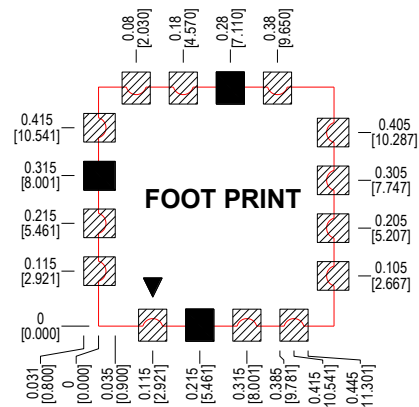
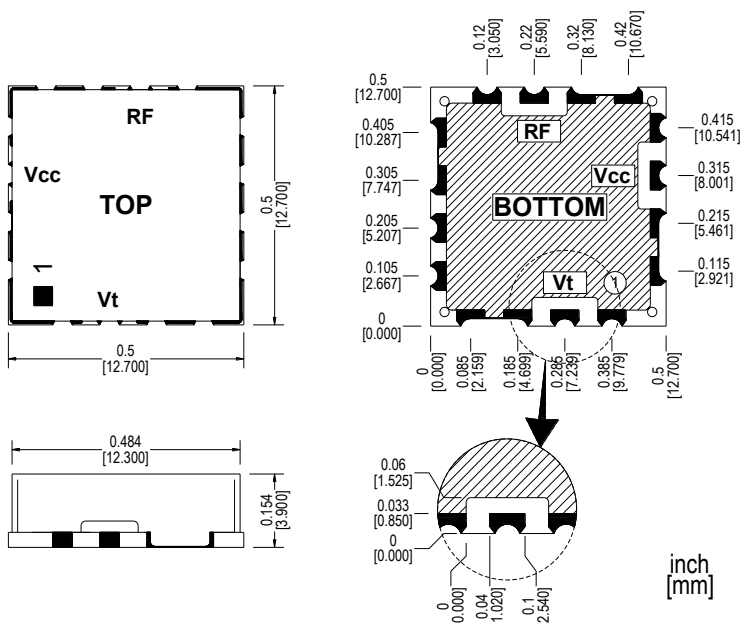


Typical Applications

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	163		173
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		11	25
Output Power		dBm	+2	+4	+6
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-115	-108
Phase Noise @100kHz offset		dBc / Hz		-136	-131
Tuning Voltage (Vt)		V	1		4
Tuning Voltage Sensitivity (Kv)		MHz / V		2.8-10.8	
2 nd Harmonic Suppression		dBc		-24	-20
Pushing Figure		MHz / V		4	
Pulling Figure		MHz		0.34	
Input Capacitance		pF		1000	
Operating Temperature Range		°C	-40		+85