



Dynamic Engineers Inc.

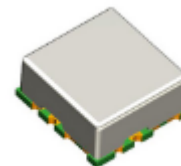
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1 Î € Æ Ì € MHz SMD VCO _ Voltage Controlled
Oscillator

Features and Benefits

Frequency Range: 160-180MHz
Supply Voltage: 4.75V
Current: 8mA Typ.
Output power: +3dBm Typ.
Tuning Voltage: 0.5-4.5V
Phase noise: -103dBc/Hz@10KHz
Operating temperature: -40°C--+85°C
Size: 12.7x12.7x3.9mm
Package type: SMD

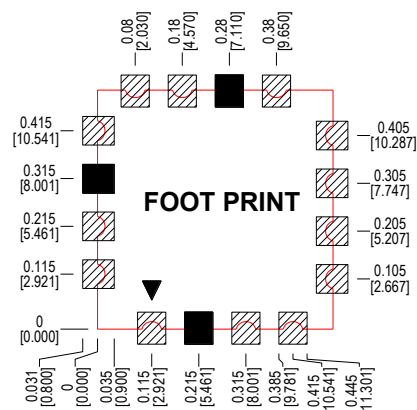
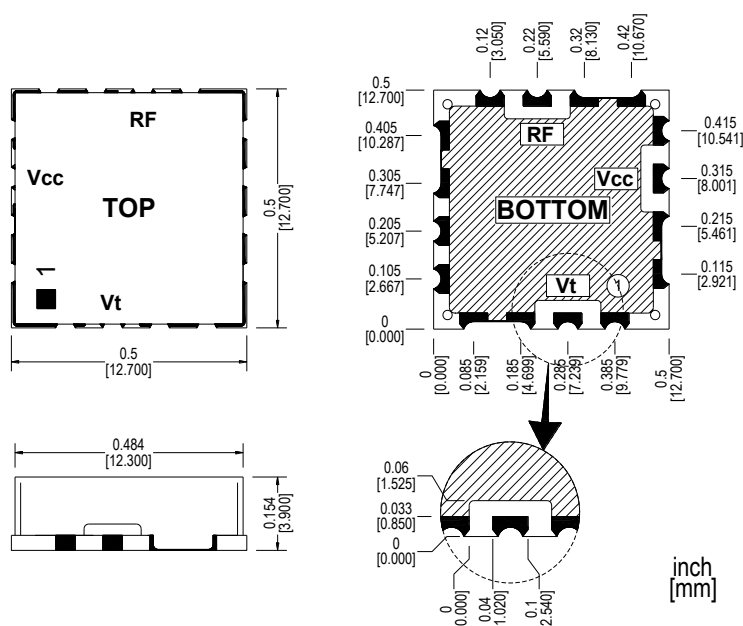


Typical Applications

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	160		180
Power Supply (Vcc)	Voltage	Vdc		+4.75	
	Current	mA		8	
Output Power		dBm		+3	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-103	
Phase Noise @100kHz offset		dBc / Hz		-123	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		12	
2 nd Harmonic Suppression		dBc		-25	
Pushing Figure		MHz / V		0.5	
Pulling Figure		MHz		0.5	
Input Capacitance		pF		330	
Operating Temperature Range		°C	-40		+85