



Dynamic Engineers Inc.

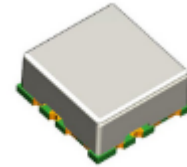
Website: www.DynamicEngineers.com
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VCO1212BQ-1800MHz-B

1800MHz SMD VCO_Voltage Controlled Oscillator

Features and Benefits

Frequency Range: 1800MHz
Supply Voltage: 6V
Current: 40mA Max.
Output power: +6dBm Typ.
Tuning Voltage: 0.5-4.5V
Phase noise: -112dBc/Hz@10KHz
Operating temperature: -40°C--+85°C
Size: 12.7x12.7x5.9mm
Package type: SMD

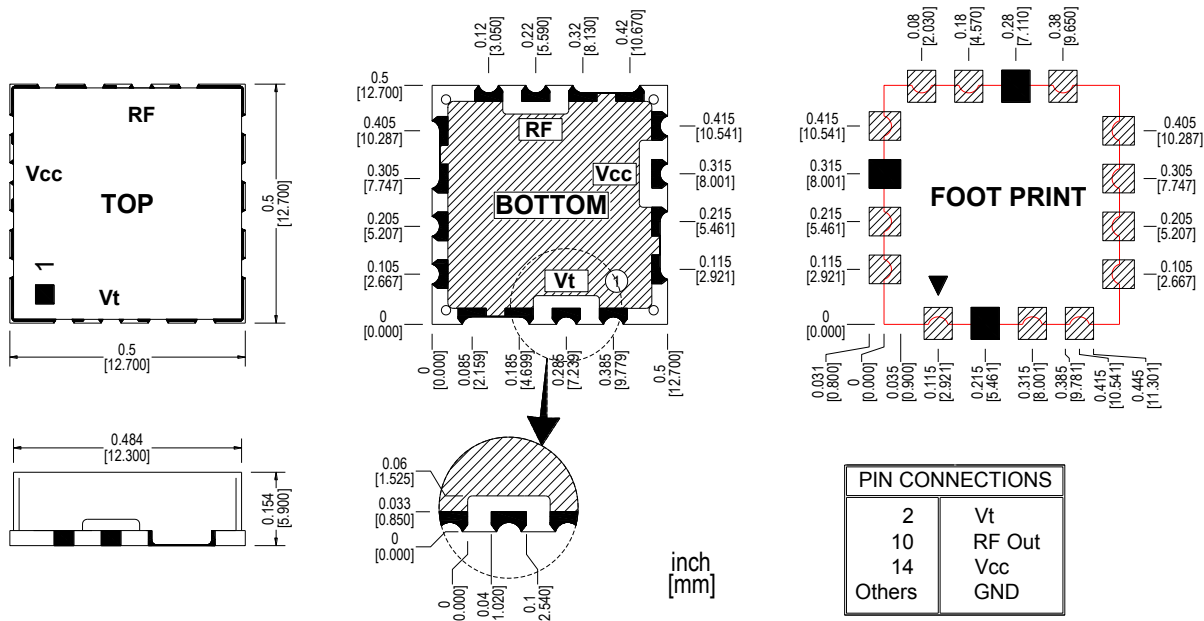


Typical Applications

SATCOM
Receiver
Test Equipment
Radar
Point-to-Point
Radio
MMDS
WiMax

Mechanical Drawing & Pin Connections

Drawing No: MD250003-1





Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz		1800	
Power Supply (Vcc)	Voltage	Vdc		+6	
	Current	mA			40
Output Power		dBm	+4	+6	+8
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-112	
Phase Noise @100kHz offset		dBc / Hz		-130	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		5-7	
2 nd Harmonic Suppression		dBc		-15	
Pushing Figure		MHz / V			1
Pulling Figure		MHz			2
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85