



Dynamic Engineers Inc.

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VCO1212BQ-1850MHz-2050MHz-A

1850-2050MHz SMD VCO

Features and Benefits

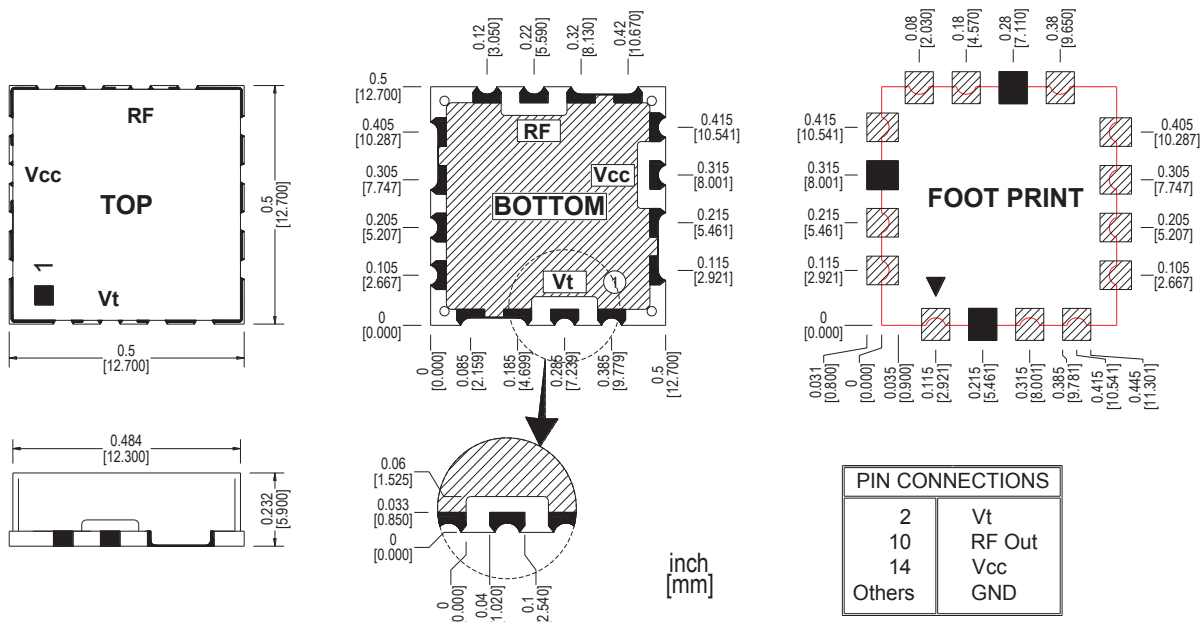
Frequency Range:1850-2050MHz
Supply Voltage:5.0V
Current: 30mA Typ.
Output power: +5.0dBm Typ.
Tuning Voltage: 1.0-14V
Phase noise: -107dBc/Hz@10KHz
Operating temperature: -40°C--+85°C
Size:12.7x12.7x5.9mm

Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1850		2050
Power Supply (Vcc)	Voltage	Vdc		5.0	
	Current	mA		30	
Output Power		dBm	+2.0	+5.0	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-107	
Tuning Voltage (Vt)		V	1.0		+14
Tuning Voltage Sensitivity (Kv)		MHz / V		22-25	
2nd Harmonic Suppression		dBc		-18	
Pushing Figure		MHz / V		1	2
Pulling Figure (14dB return loss, all phases)		MHz		1	
Input Capacitance		pF		47	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85