



Dynamic Engineers Inc.

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VCO1212BQ-1200MHz-2700MHz-A

1200-2700MHz Voltage Controlled Oscillator

Features and Benefits

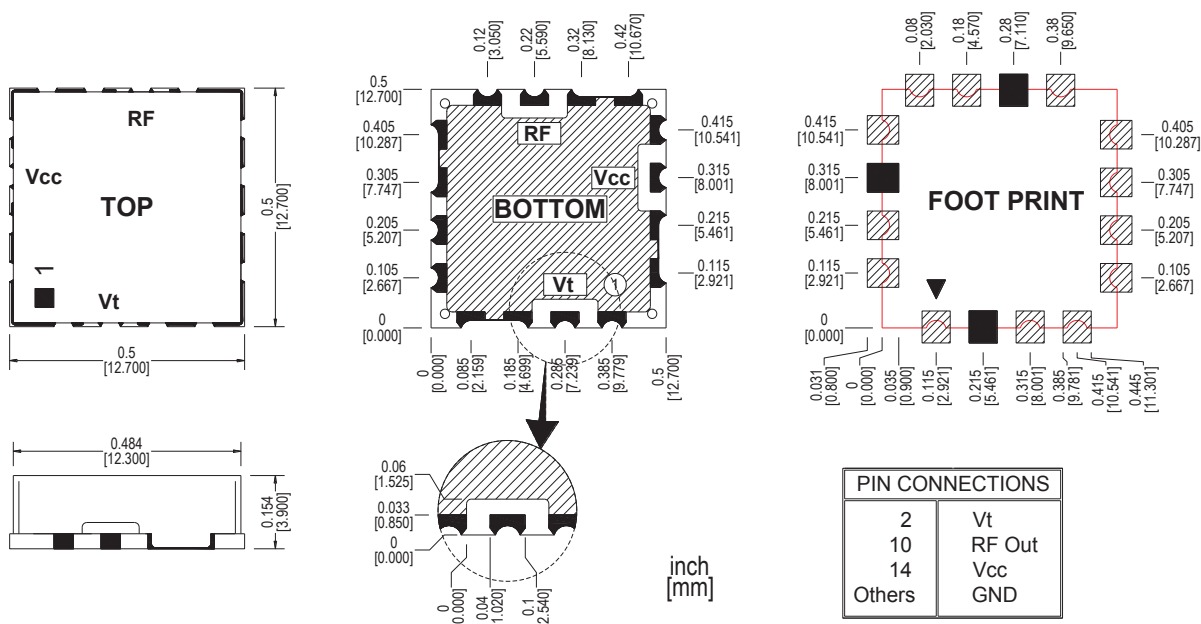
Frequency range: 1200-2700MHz
Supply voltage: 12V
Current: 40mA Max.
Output power: +12dBm Max.
Tuning voltage: 0V to 22V
Phase noise: -109dBc/Hz@100KHz
Operating temperature: -40°C to +85°C
Size: 12.7x12.7x3.9mm

Typical Applications

SATCOM
Receiver
Radio
MMDS
Radar
Test Equipment
WiMax

Mechanical Drawing & Pin Connections

Drawing No: MD140084-2





Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1200		2700
Power Supply (Vcc)	Voltage	Vdc		12	
	Current	mA			40
Output Power		dBm	+6.0	+9.0	+12.0
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-85	
Phase Noise @100kHz offset		dBc / Hz		-109	
Tuning Voltage (Vt)		V	0		+22
Tuning Voltage Sensitivity (Kv)		MHz / V		15-200	
2nd Harmonic Suppression		dBc		-12	
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		$^{\circ}\text{C}$	-40		+85