Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

VCO1212BQ-1400MHz-2650MHz-A 1400MHz-2650MHz Voltage Controlled Oscillator

Features and Benefits

Frequency range: 1400MHz - 2650MHz

Supply voltage: 5V Current: 40mA Max.

Output power: +10dBm Max. Tuning voltage: 0V to 22V

Phase noise: -112dBc/Hz@100KHz Operating temperature: -40°C to +85°C

Size: 12.7x12.7x3.9mm

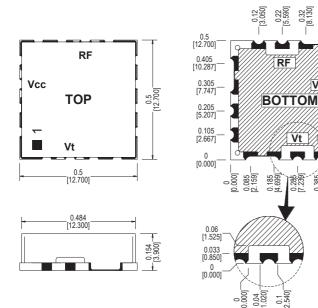
Typical Applications

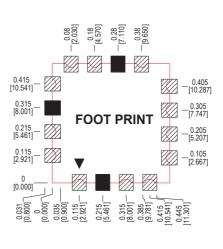
SATCOM Receiver Radio MMDS Radar Test Equipment WiMax

Mechanical Drawing & Pin Connections

Drawing No:

MD140084-2





PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			

Vcc

0.215

inch [mm]



VCO1212BQ-1400MHz-2650MHz-A

1400MHz-2650MHz Voltage Controlled Oscillator

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1400		2650
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			40
Output Power		dBm	+2.5	+6.5	+10.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-90	
Phase Noise	@100kHz offset	dBc / Hz		-112	
Tuning Voltage (Vt)		V	0		+22
Tuning Voltage Sensitivity (Kv)		MHz / V		30-130	
2nd Harmonic Suppression		dBc		-12	
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85