

Dynamic Engineers Inc.

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

VCO1212BQ-830MHz-970MHz-A 830-970MHz SMD VCO

Features and Benefits

Frequency Range:830-970MHz

Supply Voltage:5.0V Current: 25mA Max.

Output power: +7.0dBm Max.

Tuning Voltage: 0-5V

Phase noise: -102dBc/Hz@10KHz Operating temperature: -30°C--+80°C

Size:12.7x12.7x3.9mm

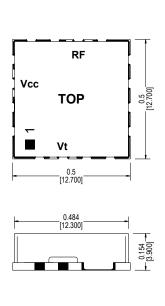
Typical Applications

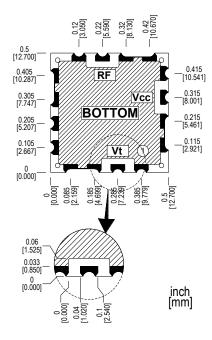
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

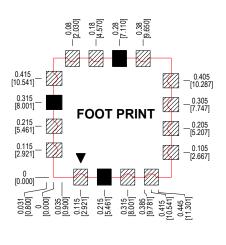
Mechanical Drawing & Pin Connections

Drawing No:

MD140084-2







PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			



Dynamic Engineers Inc.

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

VCO1212BQ-830MHz-970MHz-A 830-970MHz SMD VCO

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	830		970
Power Supply (Vcc)	Voltage	Vdc		+5.0	
	Current	mA			25
Output Power		dBm	+1.0	+4.0	+7.0
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-102	-97
Tuning Voltage (Vt)		V	0		+5
Tuning Voltage Sensitivity (Kv)		MHz / V		46-54	
2nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V			7
Pulling Figure (14dB RL)		MHz			3
Input Capacitance		pF		47	
Operating Temperature Range		°C	-30		+80