

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com **VCO1212BQ-1000MHz-1500MHz-A** 1000-1500MHz SMD VCO

Features and Benefits

Frequency Range:1000-1500MHz

Supply Voltage:5.0V Current: 35mA Max.

Output power: +9.0dBm Max.

Tuning Voltage: 0-20V

Phase noise: -98dBc/Hz@100KHz Operating temperature: -40°C--+85°C

Size:12.7x12.7x3.9mm

Typical Applications

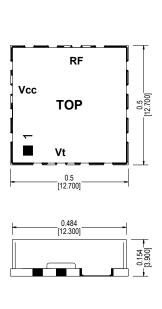
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

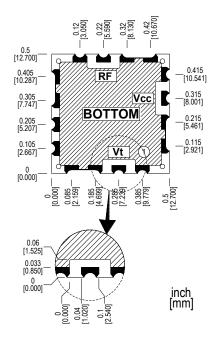
Mechanical Drawing & Pin Connections

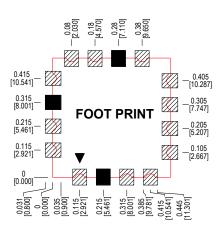
Drawing No:

MD140084-2

3







PIN CONNECTIONS			
2	Vt		
10	RF Out		
14	Vcc		
Others	GND		



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Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1000		1500
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			35
Output Power		dBm	+3.0	+6.0	+9.0
Output Impedance		Ω		50	
Phase Noise	@10kHz offset	dBc / Hz		-98	-92
Phase Noise	@100kHz offset	dBc / Hz		-118	-113
Tuning Voltage (Vt)		V	0		+20
Tuning Voltage Sensitivity (Kv)		MHz / V		25-100	
2nd Harmonic Suppression		dBc			-7
Pushing Figure		MHz / V		5	
Pulling Figure		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85