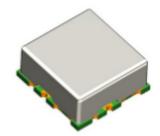


## Dynamic Engineers Inc.

Website: <a href="www.DynamicEngineers.com">www.DynamicEngineers.com</a> Email: <a href="mailto:lnquiry@DynamicEngineers.com">lnquiry@DynamicEngineers.com</a>

### **Features and Benefits**

Frequency Range:2300-2450MHz Supply Voltage:5V Current: 30mA Max. Output power: +4dBm Typ. Tuning Voltage: 0.5-4.5V Phase noise: -102dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x5.9mm Package type: SMD VCO1212BQ-2300MHz-2450MHz-A 2300-2450MHz SMD VCO\_Voltage Controlled Oscillator



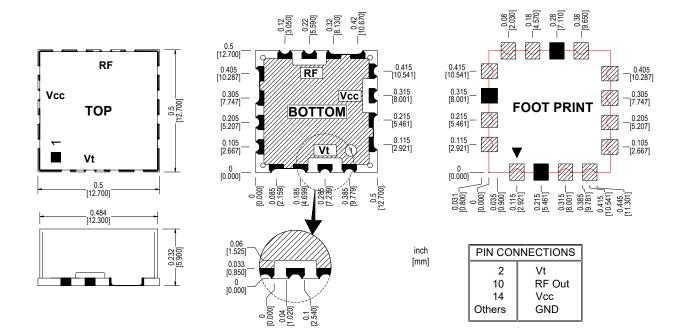
#### **Typical Applications**

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

## **Mechanical Drawing & Pin Connections**



MD250003-1



Dynamic Engineers, Inc.

Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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## **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	2300		2450
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA			30
Output Power		dBm	+1	+4	+7
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-102	
Phase Noise @100kHz offset		dBc / Hz		-125	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		60	
2 <sup>nd</sup> Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V			2
Pulling Figure		MHz			3
Input Capacitance		pF		10	
Operating Temperature Range		O°	-40		+85

# D.LgYBc]gY

• 2300MHz



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Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

#### • 2375MHz



#### • 2450MHz

