

Dynamic Engineers Inc.

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

Features and Benefits

Low phase noise Linear tuning characteristics Low pushing / Low pulling Aqueous washable

Typical Applications

Broadcast
VHF radio
Wireless Telemetry
Test Instrument-Signal Generation

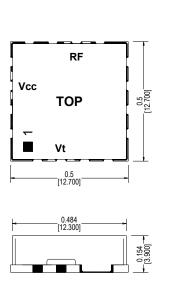
Description

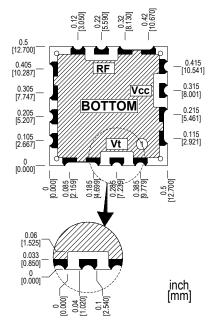
Ultra-low Noise Surface Mount VCO

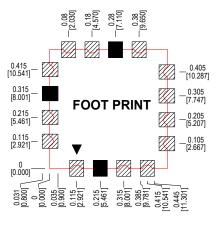
Mechanical Drawing & Pin Connections

Drawing No:

Drawing No: A8% \$\$, (!&







PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			

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VCO1212BQ-400MHz-800MHz-A I €€ÎI €€T P: ÂÛT ÖÁXÔUÁ

Specifications

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	400		800
Power Supply (Vcc)	Voltage	Vdc		5	
	Current	mA			30
Output Power		dBm	0	+5	+10
Output Impedance		Ω		50	
Phase Noise	@10kHz offset	dBc / Hz		-100	
Phase Noise	@100kHz offset	dBc / Hz		-118	
Tuning Voltage (Vt)		V	0		12
Tuning Voltage Sensitivity (Kv)		MHz / V	42	50	
2nd Harmonic Suppression		dBc		-5	
Pushing Figure		MHz / V			5
Pulling Figure (12dB Return Loss, all phases)		MHz			5
Input Capacitance		pF			200
Operating Temperature Range		°C	-10		+70