

Dynamic Engineers Inc.

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

VCO1212BQ-1970MHz-2770MHz-A 1970-2770MHz SMD VCO

Features and Benefits

Frequency Range:1970-2770MHz

Supply Voltage:8.0V Current: 40mA Max.

Output power: +8.5dBm Max. Tuning Voltage: 0.5-25V

Phase noise: -106dBc/Hz@100KHz Operating temperature: -40°C--+85°C

Size:12.7x12.7x3.9mm

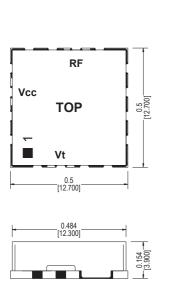
Typical Applications

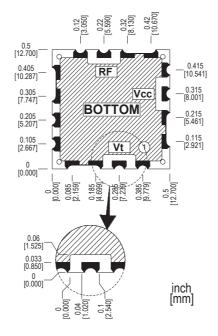
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

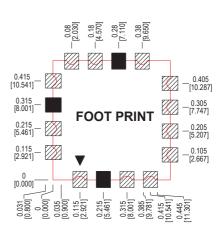
Mechanical Drawing & Pin Connections

Drawing No:

MD140084-2







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	1970		2770
Power Supply (Vcc)	Voltage	Vdc		8	
	Current	mA			40
Output Power		dBm	+1.5	+5.0	+8.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-90	
Phase Noise	@100kHz offset	dBc / Hz		-106	
Tuning Voltage (Vt)		V	0.5		+25
Tuning Voltage Sensitivity (Kv)		MHz / V		36-70	
2nd Harmonic Suppression		dBc		-10	
Pushing Figure		MHz / V		5	
Pulling Figure (12dB)		MHz		15	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85