

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com
Email: Inquiry@DynamicEngineers.com

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240~760MHz SMD VCO_Voltage Controlled
Oscillator

Features and Benefits

Frequency Range:240-760MHz

Supply Voltage:5V Current: 23mA Typ. Output power: +8dBm Typ. Tuning Voltage: 0.5-24V

Phase noise: -106dBc/Hz@10KHz Operating temperature: -40°C--+85°C

Size:12.7x12.7x3.9mm Package type: SMD



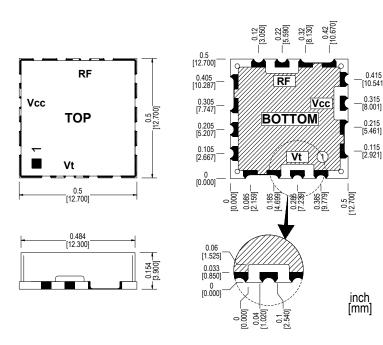
Typical Applications

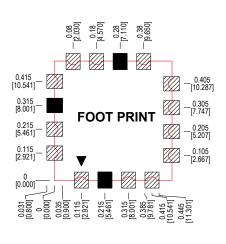
SATCOM Receiver Test Equipment Radar Point –to-Point Radio MMDS WiMax

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	240		760
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		23	30
Output Power		dBm	+6	+8	+10
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-106	
Phase Noise	@100kHz offset	dBc / Hz		-126	
Tuning Voltage (Vt)		V	0.5		24
Tuning Voltage Sensitivity (Kv)		MHz / V		14-24	
2 nd Harmonic Suppression		dBc		-13	
Pushing Figure		MHz / V		3	
Pulling Figure		MHz		10	
Input Capacitance		pF		100	
Operating Temperature Range		°C	-40		+85