

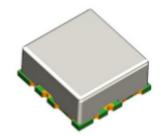
Dynamic Engineers Inc.

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

Features and Benefits

Frequency Range:845-875MHz Supply Voltage:5V Current: 15mA Typ. Output power: +3.5dBm Typ. Tuning Voltage: 1-4V Phase noise: -113dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm Package type: SMD

J7C%&%&6E!,()A<n!,+)A<n!5 845-875MHz SMD VCO Voltage Controlled Oscillator

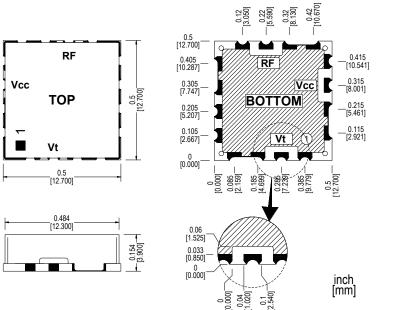


MD140084-2

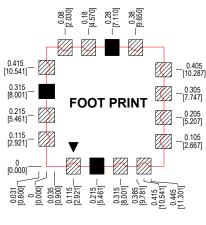
Typical Applications

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

Mechanical Drawing & Pin Connections



-8



Drawing No:

PIN CONNECTIONS					
Vt					
RF Out					
Vcc					
GND					

Dynamic Engineers, Inc.

Rev. 1

3

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	845		875
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		15	
Output Power		dBm		+3.5	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-113	
Phase Noise	@100kHz offset	dBc / Hz		-133	
Tuning Voltage (Vt)		V	1		4
Tuning Voltage Sensitivity (Kv)		MHz / V		14	
2 nd Harmonic Suppression		dBc		-15	
Pushing Figure		MHz / V		0.1	
Pulling Figure		MHz		1	
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85

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