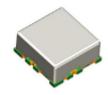


## Dynamic Engineers Inc.

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

### Features and Benefits

Frequency Range:1800-1900MHz Supply Voltage:5V Current: 21mA Typ. Output power: +7dBm Typ. Tuning Voltage: 0-4.5V Phase noise: -109dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm Package type: SMD **J7C%&%&6E!%\$\$A<n!%\$\$A<n!5** FÌ <del>€€</del>HTZ SMD VCO\_Voltage Controlled Oscillator

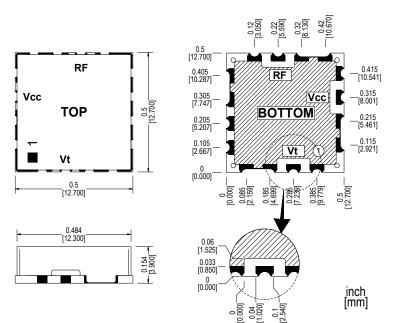


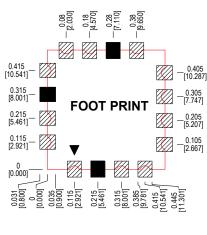
MD140084-2

### **Typical Applications**

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

### **Mechanical Drawing & Pin Connections**





Drawing No:

PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			

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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.



# Dynamic Engineers Inc.

Website: www.DynamicEngineers.com Email: Inquiry@DynamicEngineers.com **J7C%&%6E!%\$\$A<n!%\$\$A<n!5** FÌ <del>€€Ё</del>J€€MHz SMD VCO\_Voltage Controlled</del> Oscillator

## **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	1800		1900
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA		21	
Output Power		dBm		+7	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-109	
Phase Noise	@100kHz offset	dBc / Hz		-129	
Tuning Voltage (Vt)		V	0		4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		36	
2 <sup>nd</sup> Harmonic Suppression		dBc		-20	
Pushing Figure		MHz / V		0.3	
Pulling Figure		MHz		0.6	
Input Capacitance		pF		47	
Operating Temperature Range		O°	-40		+85

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