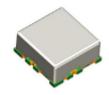


# Dynamic Engineers Inc.

Website: <a href="http://www.DynamicEngineers.com">www.DynamicEngineers.com</a> Email: <a href="http://www.DynamicEngineers.com">Inquiry@DynamicEngineers.com</a>

### **Features and Benefits**

Frequency Range:1800MHz Supply Voltage:6V Current: 27mA Typ. Output power: +6dBm Typ. Tuning Voltage: 0.5-4.5V Phase noise: -124dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm Package type: SMD **J 7 C %&%&6 E !% \$\$A < n!5** FÌ €€MHz SMD VCO\_Voltage Controlled Oscillator

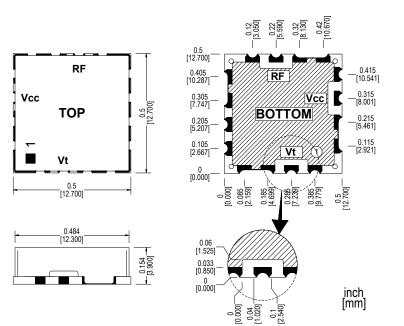


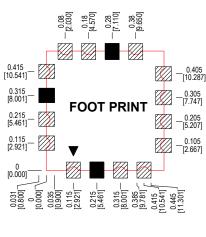
MD140084-2

#### **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					

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**

Para	ameter	Units	Min.	Typical	Max.
Operating Frequency F	Range	MHz		1800	
Power Supply (Vcc)	Voltage	Vdc		+6	
	Current	mA		27	
Output Power		dBm		+6	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-124	
Phase Noise @100kHz offset		dBc / Hz		-144	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensit	ivity (Kv)	MHz / V		7	
2 <sup>nd</sup> Harmonic Suppres	sion	dBc		-15	
Pushing Figure		MHz / V		0.1	
Pulling Figure		MHz		0.3	
Input Capacitance		pF		47	
Operating Temperatur	e Range	°C	-40		+85