

## Dynamic Engineers Inc.

Website: <u>www.DynamicEngineers.com</u> Email: <u>Inquiry@DynamicEngineers.com</u>

#### **Features and Benefits**

Frequency Range:160-180MHz Supply Voltage:4.75V Current: 8mA Typ. Output power: +3dBm Typ. Tuning Voltage: 0.5-4.5V Phase noise: -103dBc/Hz@10KHz Operating temperature: -40°C--+85°C Size:12.7x12.7x3.9mm Package type: SMD **J7C%‰6E!% \$A < n!% \$A < n!5** 1Î ∰Î €MHz SMD VCO\_Voltage Controlled Oscillator

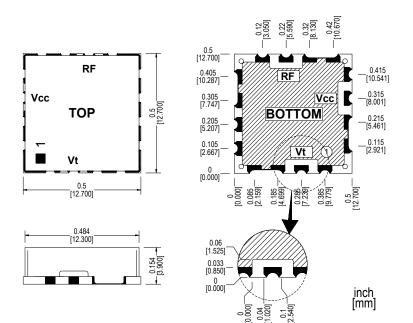


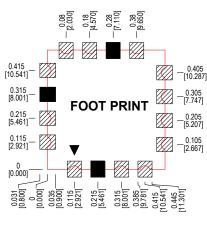
MD140084-2

### **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

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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 I	Range	MHz	160		180
Power Supply (Vcc)	Voltage	Vdc		+4.75	
Power Supply (VCC)	Current	mA		8	
Output Power		dBm		+3	
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-103	
Phase Noise @100kHz offset		dBc / Hz		-123	
Tuning Voltage (Vt)		V	0.5		4.5
Tuning Voltage Sensit	ivity (Kv)	MHz / V		12	
2 <sup>nd</sup> Harmonic Suppres	sion	dBc		-25	
Pushing Figure		MHz / V		0.5	
Pulling Figure		MHz		0.5	
Input Capacitance		pF		330	
Operating Temperatur	e Range	0°C	-40		+85

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