

#### Dynamic Engineers Inc.

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

### J**7C%&%&6E!+\$&A<n!+')A<n!5** 702-735MHz SMD VCO\_Voltage Controlled Oscillator

#### **Features and Benefits**

Frequency Range:702-735MHz

Supply Voltage:5V Current: 25mA Max.

Output power: +6.5dBm Max. Tuning Voltage: 0.5-4.5V

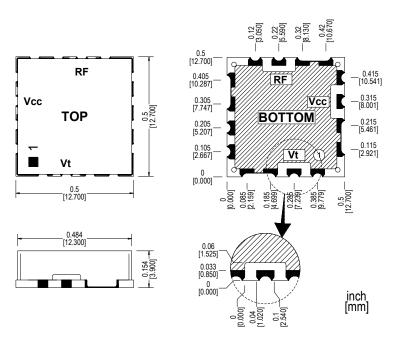
Phase noise: -107dBc/Hz@10KHz Operating temperature: -40°C--+85°C

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

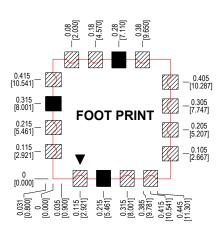
#### **Typical Applications**

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

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



Drawing No: A8% \$\$, (!&



PIN CONNECTIONS				
2	Vt			
10	RF Out			
14	Vcc			
Others	GND			



# Dynamic Engineers Inc.

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

## **J7C%&%&6E!+\$&A<n!+')A<n!5** 702-735MHz SMD VCO\_Voltage Controlled Oscillator

### **Specifications**

Parameter		Units	Min.	Typical	Max.
Operating Frequency Range		MHz	702		735
Power Supply (Vcc)	Voltage	Vdc		+5	
	Current	mA			25
Output Power		dBm	+1.5	+4	+6.5
Output Impedance		Ω		50	
Phase Noise @10kHz offset		dBc / Hz		-107	-102
Tuning Voltage (Vt)		V	0.5		+4.5
Tuning Voltage Sensitivity (Kv)		MHz / V		19-23	
2nd Harmonic Suppression		dBc			-10
Pushing Figure		MHz / V			7
Pulling Figure(14dB RL)		MHz			3
Input Capacitance		pF		47	
Operating Temperature Range		°C	-40		+85