

## Dynamic Engineers Inc.

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

### **Features and Benefits**

Frequency range: 15-700MHz Output: HCSL Supply voltage: 3.3V Current: 90mA Max. Frequency stability vs. temperature: ±50PPM Operating temperature: -40°C to +85°C Size: 2.5x2x1mm Package type: SMD



VCXO2520BM-LJ\_HCSL-332

Oscillator

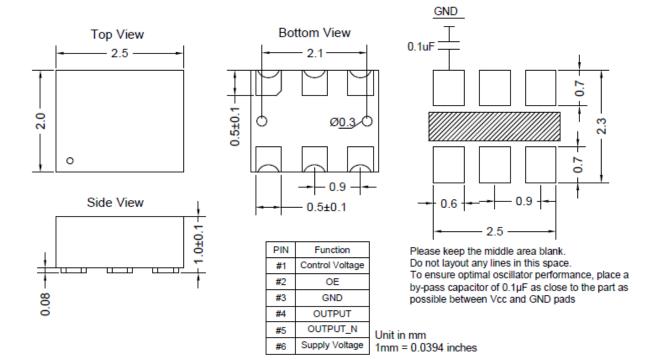
Low Jitter VCXO\_Voltage Controlled Crystal

#### **Typical Applications**

Defense Systems Mobile Radar Station Gigabit Ethernet, SONET/SDH Server & Storage, Data Center SD/HD Video, FPGA Clock Generation

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





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## **Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational Frequency	fo		15		700	MHz	
RF Output							
Output Waveform				HCSL			
Output Level		Output high	0.66		1.15	V	
		Output low	0		0.15	V	
Duty Cycle			45		55	%	
Rise & Fall Time					0.35	ns	
Startup Time					8	ms	
Tri-State		Enable	$0.7 V_{cc}$			V	
(Input to Pin2)		Disable			$0.3 V_{cc}$	V	
Power Supply							
Voltage	Vcc	±10%		3.3		V	
Supply Current		V <sub>cc</sub> =3.3V			90	mA	
Stand by Current		V <sub>cc</sub> =3.3V			90	mA	
Control Voltage							
Control Voltage	Vc	V <sub>cc</sub> =3.3V	0.3	1.65	3	V	
Pulling Range			±50		±250	ppm	
Linearity					±10	%	
Modulation Bandwidth			5		20	KHz	
Vc Input Impedance			5			Mohm	
Frequency Stability							
Versus Temperature					±50	ppm	
Phase Noise At V <sub>cc</sub> =3.3V, 805.664MHz Frequency		1KHz		-107			
		10KHz		-117		dBc/Hz	
		100KHz		-125			
		1MHz		-135			
RMS Phase Jitter		Integrated 12KHz-20MHz	150		300	fs	
Period Jitter					50	ps	
Environmental Conditio	ns						
Operating temperature ra	nge	-40°C to +85°C					