

## Dynamic Engineers Inc.

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

#### **Features and Benefits**

Frequency range: 15-2100MHz Output: LVDS Supply voltage: 2.5V Current: 80mA Max. Frequency stability vs. temperature: ±50PPM Operating temperature: -40°C to +85°C Size: 2.5x2x1mm Package type: SMD

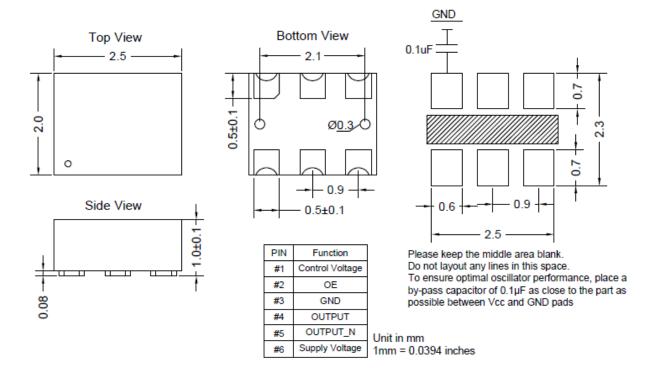


#### **Typical Applications**

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

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





VCXO2520BM-LJ\_LVDS-331

2.5x2.0mm LVDS VCXO\_Voltage Controlled Crystal Oscillator\_\_\_\_\_

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# VCXO2520BM-LJ\_LVDS-331 2.5x2.0mm LVDS VCXO\_Voltage Controlled Crystal Oscillator

## **Specifications**

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational	f <sub>0</sub>		15		2100	MHz	
Frequency	10		15		2100		
RF Output							
Output Waveform				LVDS			
Output Level		Output high			1.6	V	
		Output low	0.9			V	
Duty Cycle			45		55	%	
Rise & Fall Time					0.35	ns	
Startup Time					8	ms	
Tri-State		Enable	0.7 V <sub>cc</sub>			V	
(Input to Pin2)		Disable			0.3 V <sub>cc</sub>	V	
Power Supply							
Voltage	Vcc	±10%		2.5		V	
Supply Current		V <sub>cc</sub> =2.5V			80	mA	
Stand by Current		V <sub>cc</sub> =2.5V			80	mA	
Control Voltage							
Control Voltage	Vc	V <sub>cc</sub> =2.5V	0.25	1.25	2.25	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		1KHz		-106			
At $V_{cc}$ =3.3V,		10KHz		-115		dBc/Hz	
873.515MHz		100KHz		-123			
Frequency		1MHz		-133			
RMS Phase Jitter		Integrated 12KHz-20MHz	150		300	fs	1
Period Jitter					50	ps	1
<b>Environmental Condit</b>	ions						
Operating temperature		-40°C to +85°C					