

## Dynamic Engineers Inc.

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

#### **Features and Benefits**

Frequency range: 15-2100MHz Output: LVPECL Supply voltage: 3.3V Current: 110mA Max. Frequency stability vs. temperature: ±50PPM Operating temperature: -40°C to +85°C Size: 2.5x2x1mm Package type: SMD

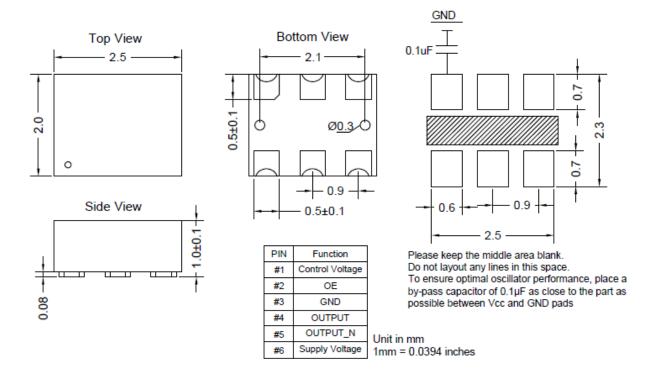


#### **Typical Applications**

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\_LVPECL-332

2.5x2.0mm LVPECL VCXO\_Voltage Controlled Crystal Oscillator

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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2.5x2.0mm LVPECL 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				VPECL			
Output Level		Output high	Vcc-1.165		Vcc-0.8	V	
		Output low	V <sub>cc</sub> -2.0		Vcc-1.55	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%		3.3		V	
Supply Current		V <sub>cc</sub> =3.3V			110	mA	
Stand by Current		V <sub>cc</sub> =3.3V			110	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		1KHz		-106			
At V <sub>cc</sub> =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	
<b>Environmental Condit</b>	ions						
Operating temperature	range	-40°C to +85°C					

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