

# Dynamic Engineers Inc.

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

### **Features and Benefits**

Frequency range: 15-2100MHz Output: LVDS Supply voltage: 3.3V Current: 90mA Max. Frequency stability vs. temperature: ±100PPM Operating temperature: -20°C to +70°C Size: 2.5x2x1mm Package type: SMD



VCXO2520BM-LJ\_LVDS-242

Oscillator

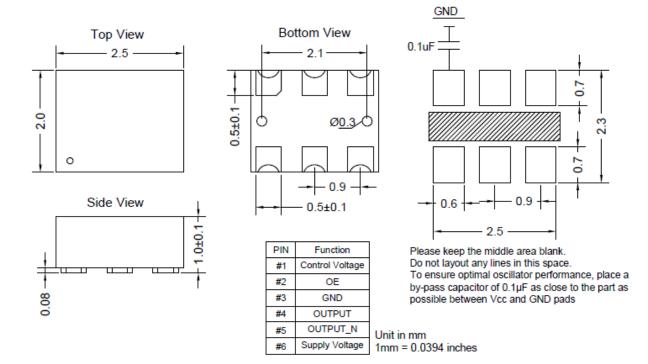
Low Jitter VCXO\_Voltage Controlled Crystal

#### **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**





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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#### VCXO2520BM-LJ\_LVDS-242 Low Jitter VCXO\_Voltage Controlled Crystal Oscillator

## **Specifications**

Oscillator	0	O sa diti sa	Value			Unit	Note
Specification	Sym	Condition	Min.	Тур.	Max.		
Operational	fo		15		2100	MHz	
Frequency	10		15		2100		
RF Output	1		-			1	T
Output Waveform				LVDS	r		
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			$0.3 V_{cc}$	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	T		-		-	1	T
Versus Temperature					±100	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	
Period Jitter					50	ps	
<b>Environmental Condit</b>	ions						
Operating temperature range -20°C to +70°C							

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