

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: -10°C to +60°C Size: 2.5x2x1mm Package type: SMD

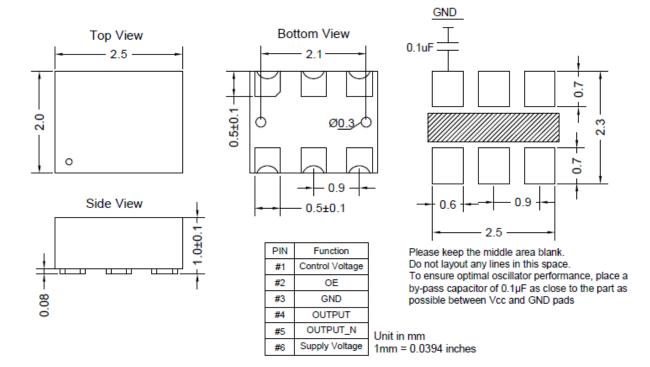


Typical Applications

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-131 2.5x2.0mm LVDS 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 mav have earlier revisions in their possession.



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VCXO2520BM-LJ_LVDS-131 2.5x2.0mm LVDS VCXO_Voltage Controlled Crystal Oscillator

Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational	fo		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 _{cc}			V	
(Input to Pin2)		Disable			$0.3 V_{cc}$	V	
Power Supply							
Voltage	Vcc	±10%		2.5		V	
Supply Current		V _{cc} =2.5V			80	mA	
Stand by Current		V _{cc} =2.5V			80	mA	
Control Voltage							
Control Voltage	Vc	V _{cc} =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	
Period Jitter					50	ps	
Environmental Condit	ions			<u> </u>			·
Operating temperature		-10°C to +60°C					

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