

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 15-2100MHz Output: CML Supply voltage: 2.5V Current: 80mA Max. Frequency stability vs. temperature: ±100PPM Operating temperature: -20°C to +70°C Size: 2.5x2x1mm Package type: SMD



VCXO2520BM-LJ_CML-241

Oscillator

Low Jitter VCXO_Voltage Controlled Crystal

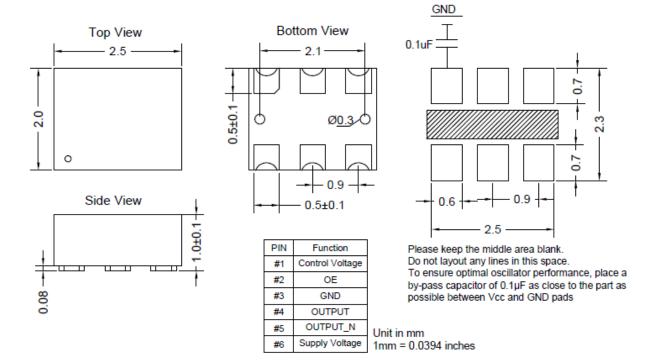
Typical Applications

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

Specifications

Oscillator			Value			Unit	Note
Specification	Sym	Condition	Min.	Тур.	Max.		
Operational Frequency	f ₀		15		2100	MHz	
RF Output							
Output Waveform				CML			
Output Level		Output high	Vcc-0.085		Vcc	V	
		Output low	Vcc-0.6		Vcc-0.32	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					±100	ppm	
Phase Noise At Vcc=3.3V, 805.664MHz Frequency		1KHz		-107		dBc/Hz	
		10KHz		-117			
		100KHz		-125			
		1MHz		-135			
RMS Phase Jitter		Integrated 12KHz-20MHz	150		300	fs	
Period Jitter					50	ps	
Environmental Conditio	ns 🔄						
Operating temperature ra		-20°C to +70°C					