

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 15-700MHz Output: HCSL Supply voltage: 2.5V Current: 80mA Max. Frequency stability vs. temperature: ±100PPM Operating temperature: -40°C to +85°C Size: 2.5x2x1mm Package type: SMD



VCXO2520BM-LJ_HCSL-341

Oscillator

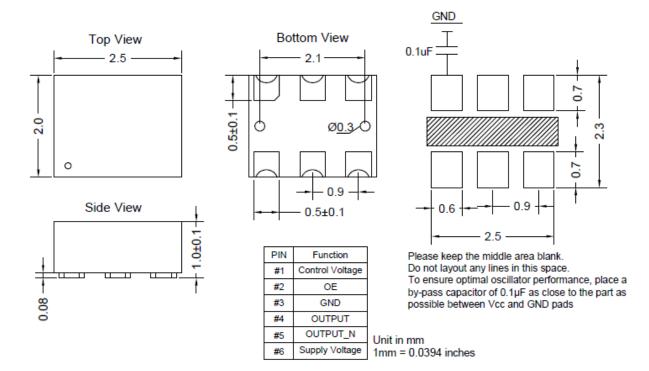
Low Jitter VCXO_Voltage Controlled Crystal

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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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Тур.	Max.		
Operational Frequency	f ₀		15		700	MHz	
RF Output							
Output Waveform				HCSL			
Output Level		Output high	0.66		1.15	V	
		Output low	0		0.15	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			
		10KHz		-117		dBc/Hz	
		100KHz		-125			
		1MHz		-135			
RMS Phase Jitter		Integrated 12KHz-20MHz	150		300	fs	
Period Jitter					50	ps	
Environmental Conditio	ns						
Operating temperature ra	nge	-40°C to +85°C					