

Dynamic Engineers Inc.

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

VCXO2520BM-LJ_LVPECL-342

2.5x2.0mm LVPECL VCXO_Voltage Controlled Crystal Oscillator

Features and Benefits

Frequency range: 15-2100MHz

Output: LVPECL Supply voltage: 3.3V Current: 110mA Max.

Frequency stability vs. temperature: ±100PPM Operating temperature: -40°C to +85°C

Size: 2.5x2x1mm Package type: SMD



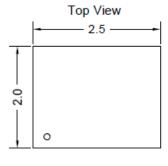
Typical Applications

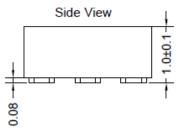
Defense Systems
Mobile Radar Station
Gigabit Ethernet, SONET/SDH
Server & Storage, Data Center
SD/HD Video, FPGA Clock Generation

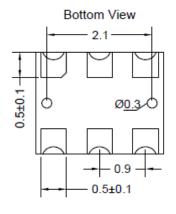
Mechanical Drawing & Pin Connections

Drawing No:

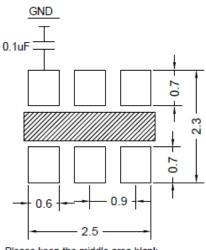
MD240070-1







PIN	Function					
#1	Control Voltage					
#2	OE					
#3	GND					
#4	OUTPUT					
#5	OUTPUT_N	١,				
#6	Supply Voltage] }				



Please keep the middle area blank.
Do not layout any lines in this space.
To ensure optimal oscillator performance, place a by-pass capacitor of 0.1µF as close to the part as possible between Vcc and GND pads

Unit in mm 1mm = 0.0394 inches



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Specifications

Oscillator	0	O and Hilliam	Value			Unit	Note
Specification	Sym	Condition	Min.	Тур.	Max.		
Operational	f ₀		15		2100	MHz	
Frequency	10		10		2100	IVII IZ	
RF Output							_
Output Waveform				VPECL			
Output Level		Output high	Vcc-1.165		V _{cc} -0.8	V	
		Output low	V _{cc} -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 _{cc}			V	
(Input to Pin2)		Disable			0.3 Vcc	V	
Power Supply				ı			<u> </u>
Voltage	Vcc	±10%		3.3		V	
Supply Current		V _{cc} =3.3V			110	mA	
Stand by Current		V _{cc} =3.3V			110	mA	
Control Voltage							
Control Voltage	Vc	V _{cc} =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				ı			_
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	
Environmental Conditi	ons						
Operating temperature r	ange	-40°C to +85°C					