

Dynamic Engineers Inc.

Website: www.DynamicEngineers.com
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VCXO3225BM-LJ_CML-141

Low Jitter VCXO_Voltage Controlled Crystal Oscillator

Features and Benefits

Frequency range: 15-2100MHz

Output waveform: CML Supply voltage: 1.8V Current: 70mA Max.

Frequency stability vs. temperature: ±100PPM

Operating temperature: -10°C to +60°C

Size: 3.2x2.5x1mm

Package type: Surface Mount



Typical Applications

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

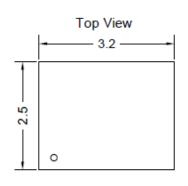
Description

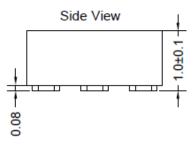
VCXO3225BM-LJ_CML-141 is the high frequency and low jitter differential VCXO. It can be widely used in digital circuits.

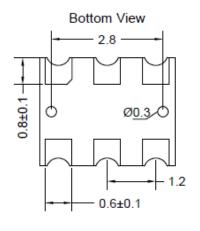
Mechanical Drawing & Pin Connections

Drawing No:

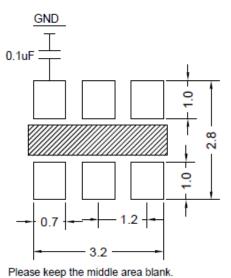
MD240085-1







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



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 Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	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%		1.8		V	
Supply Current		V _{cc} =1.8V			70	mA	
Stand by Current		V _{cc} =1.8V			70	mA	
Control Voltage							
Control Voltage		V _{cc} =1.8V	0.18	0.9	1.62	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 V _{cc} =3.3V, 805.664MHz Frequency		1KHz		-107			
		10KHz		-117		dDa/U-	
		100KHz		-125		dBc/Hz	
		1MHz		-135		1	
RMS Phase Jitter		Integrated 12KHz-20MHz	150		300	fs	
Period Jitter					50	ps	
Environmental Condition	1s						
Operating temperature rar	nge	-10°C to +60°C					