

Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

Features and Benefits

Frequency range: 122.88MHz

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

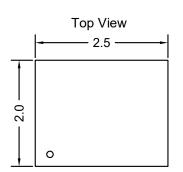
Frequency stability vs. temperature: ±50PPM Operating temperature: -20°C to +70°C

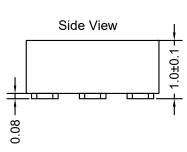
Size: 2.5x2x1mm Package type: SMD

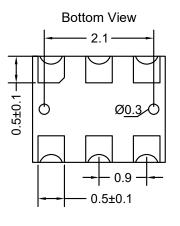
Typical Applications

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

Mechanical Drawing & Pin Connections







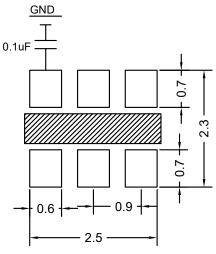
PIN	Function			
#1	Control Voltage			
#2	OE			
#3	GND			
#4	OUTPUT			
#5	OUTPUT_N			
#6	Supply Voltage			

Drawing No:

MD240070-1

VCXO2520BM-LJ_LVPECL-122.88MHz-232

2.5x2.0mm 122.88MHz LVPECL VCXO



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 0.1 μF as close to the part as possible between Vcc and GND pads

Unit in mm 1mm = 0.0394 inches



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VCXO2520BM-LJ_LVPECL-122.88MHz-232 2.5x2.0mm 122.88MHz LVPECL VCXO

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Oscillator	0	Condition	Value			Unit	Note
Specification	Sym		Min.	Тур.	Max.		
Operational Frequency	f_0			122.88		MHz	
RF Output							
Output Waveform				LVPECL			
Output Level		Output high	V _{cc} - 1.165		V _{cc} -0.8	V	
		Output low	V _{cc} -2.0		V _{cc} -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 V _{cc}	V	
Power Supply							
Voltage	V_{cc}	±10%		3.3		V	
Supply Current					110	mΑ	
Control Voltage							
Control Voltage	Vc		0.3	1.65	3	V	
Pulling Range			±50		±250	ppm	
Linearity					±10	%	
Frequency Stability							
Versus Temperature					±50	ppm	
RMS Phase Jitter		Integrated 12KHz-20MHz			300	fs	
Environmental Condition	ns						
Operating temperature ra	nge	-20°C to +70°C					