

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: 1500MHz Supply voltage: 3.3V Steady current: 54mA Max Output waveform: LVPECL Frequency stability vs. operating temperature: ±2.0PPM Operating temperature: -10°C to +70°C Size: 3.2x2.5x1.6mm

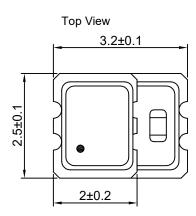
Typical Applications

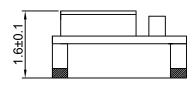
High-Speed Gigabit Ethernet Fiber Channel, Storage Area Network, SONET Enterprise Server, SAS/SATA Microprocessors/DSP/FPGA **Broadband Access** Smart Grid

Description

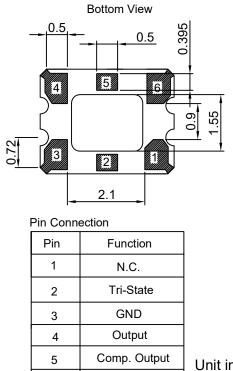
TCXO3225BM-1500MHz-A is the high frequency LVPECL output TCXO. The frequency stability can less than ±2.0PPM from -10°C to +70°C operating temperature. It can be widely used in the small size portable communication device.

Mechanical Drawing & Pin Connections





Side View



Solder PAD Layout 0.75 ശ က 2 0.1uF 1.28 1.28

MD160046-3

To ensure optimal oscillator performance, place a by-pass capacitor of $0.1\mu F$ as close to the part as possible between VDD and GND pads.

Unit in mm 1mm = 0.0394 inches

Dynamic Engineers, Inc.

Rev.1

VDD

6

Drawing No:

3

TCXO3225BM-1500MHz-A 1500MHz TCXO



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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Nete
			Min.	Тур.	Max.	Unit	Note
Operational Frequency	Fnom			1500		MHz	
RF Output							
Signal Waveform				LVPE	ECL		
Load	R∟		50 ohm into Vdd-2V				
H-Level Voltage	V _H		Vdd-1.03		Vdd-0.6	V	
L- Level Voltage	VL		Vdd-1.85		Vdd-1.6	V	
Duty Cycle			45		55	%	
Rise and fall time		20% to 80%			0.5	nS	
Startup time					5	mS	
Tri-state mode (input to pin2)		Enable	0.7xVdd			V	
		Disable			0.3xVdd	V	
Power Supply							
Supply Voltage	V _{dd}	±5%		3.3		V	
Supply Current					54	mA	
Standby Current					20	mA	
Frequency Stability							
Versus Operating Temperature Range		-10°C to +70°C	-2.0		+2.0	ppm	
Environmental, Mechanical Conditions							
Operating temperature range	-10°C to +70°C						