



Dynamic Engineers Inc.

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

TCXO3225BM-1500MHz-A
1500MHz TCXO

Features and Benefits

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

Typical Applications

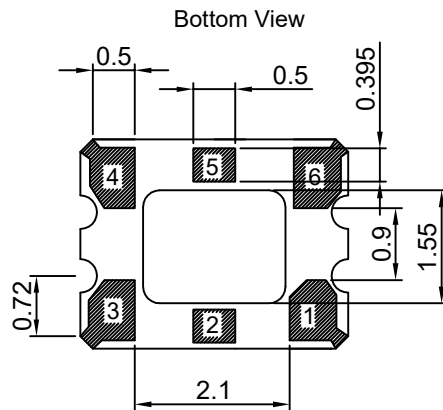
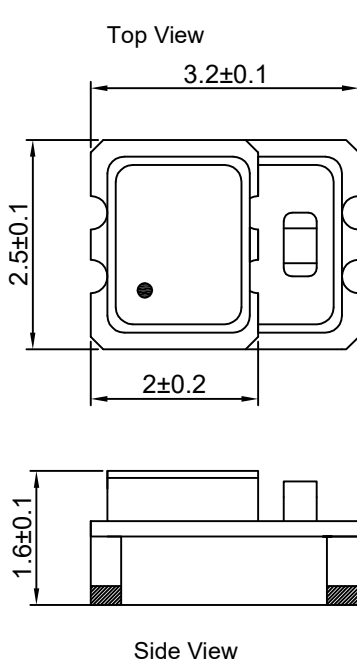
High-Speed Gigabit Ethernet
Fiber Channel, Storage Area Network, SONET
Enterprise Server, SAS/SATA
Microprocessors/DSP/FPGA
Broadband Access
Smart Grid

Description

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

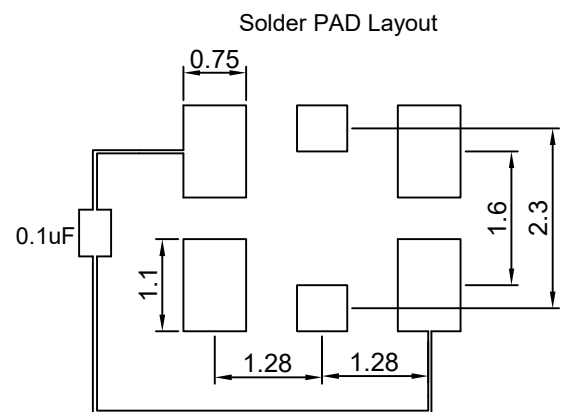
Mechanical Drawing & Pin Connections

Drawing No: **MD160046-3**



Pin Connection

Pin	Function
1	N.C.
2	Tri-State
3	GND
4	Output
5	Comp. Output
6	VDD



To ensure optimal oscillator performance, place a by-pass capacitor of 0.1 μF as close to the part as possible between VDD 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_{nom}			1500		MHz	
RF Output							
Signal Waveform			LVPECL				
Load	R_L		50 ohm into Vdd-2V				
H-Level Voltage	V_H		Vdd-1.03		Vdd-0.6	V	
L- Level Voltage	V_L		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}	$\pm 5\%$		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					