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

TCXO3225BM-122.80MHz-A
122.8MHz TCXO

Features and Benefits

Frequency range: 122.80MHz
Supply voltage: 3.3V
Steady current: 40mA Max
Output waveform: CMOS
Frequency stability vs. operating temperature: ±2.5PPM
Operating temperature: -30°C to +85°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

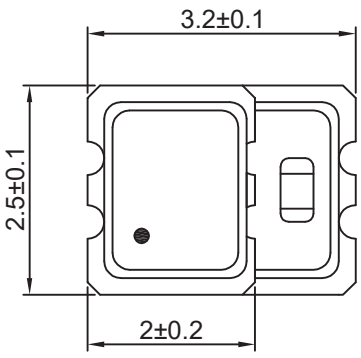
Description

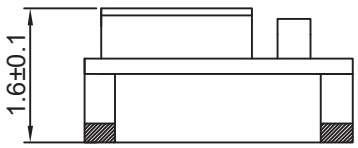
TCXO3225BM-122.80MHz-A is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No: MD160046-3

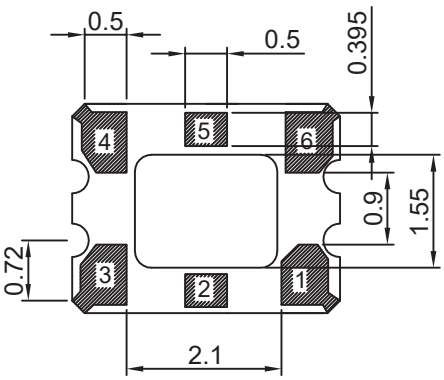
Top View





Side View

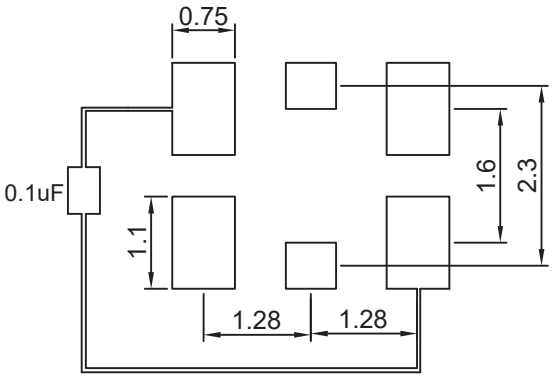
Bottom View



Pin Connection

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

Solder PAD Layout



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_{nom}			122.8		MHz	
RF Output							
Signal Waveform				CMOS			
Load	R_L				15	pF	
H-Level Voltage	V_H		90%Vcc			V	
L- Level Voltage	V_L				10%Vcc	V	
Duty Cycle			45		55	%	
Rise and fall time		10% to 90%			3.0	nS	
Startup time					5	mS	
Tri-state mode (input to pin2)		Enable	0.7xVcc			V	
		Disable			0.3xVcc	V	
Power Supply							
Supply Voltage	V_{CC}	±5%		3.3		V	
Supply Current					40	mA	
Standby Current					20	mA	
Frequency Stability							
Versus Operating Temperature Range		-30°C to +85°C	-2.5		+2.5	ppm	
Environmental,Mechanical Conditions							
Operating temperature range	-30°C to +85°C						