

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: 1000MHz Supply voltage: 3.3V Steady current: 36mA Typ. Output waveform: LVDS Frequency stability vs. operating temperature: ±2ppm Aging: ±2ppm per year Phase noise@10KHz: -98dBc Operating temperature: -40°C to +85°C Size: 3.2x2.5x1.6mm

Typical Applications

High-Speed Gigabit Ethernet, Fiber Data Loggers DSP Clock

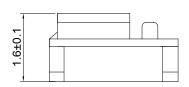
Description

2.5±0.1

TCXO3225BL-1000MHz-B-V is designed for high frequency applications where exceptional frequency stability and timing is required. It has excellent temperature performance and stability. These characteristics make it an excellent choice for high frequency applications.

Mechanical Drawing & Pin Connections

3.2±0.1

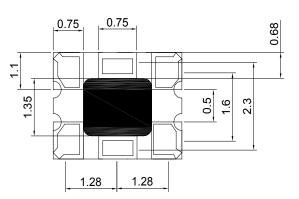


2±0.2

Pin Connection

Pin	Function		
1	Voltage Control		
2	Output Enable		
3	GND		
4	Differential		
5	Complementary		
6	Vcc		

Drawing No: MD160046-1



Unit in mm 1mm = 0.0394 inches

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Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification		Condition	Min.	Тур.	Max.		Note
Operational Frequency	Fnom			1000		MHz	
RF Output							
Signal Waveform			LVDS				
Load			100ohm				
H-Level Voltage	V _H			1.4	1.6	V	
L- Level Voltage	VL		0.9	1.1		V	
Rise and fall time			0.2 nS. (Typical), 0.4 nS. (max.) Tr / Tf: 20% ↔ 80% waveform				
Startup time			5 m	sec. (max			
Power Supply							
Supply Voltage	V _{cc}	±5%		3.3		V	
Current consumption				36		mA	
Current with output disabled				18		mA	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C		±2.0		ppm	
Versus supply voltage		±5% change			±0.2	ppm	
Versus load		±10% change			±0.2	ppm	
Aging 1 st Year					±2.0	ppm	25°C
Aging 10 Year					±10	ppm	25°C
Storage Temperature			-55°C to +150°C				
<u> </u>		1KHz	00 1		-91	dBc	
Phase Noise		10KHz			-98	dBc	
Control Voltage Function on Pad 1			1				
Control Voltage Center and Range			+1				
Frequency Pulling Range			± 8 ppm min.				
Linearity			± 1 % typical. ± 10% max.				
Output Enable Function on pad 2							
OE Control			70% of Vcc (min.) to enable output (open connection prohibit) 30% of Vcc (max) to disable output				
Output Enable Time / Disable Time			200 nS. M		S. Max.		