TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com



Features and Benefits

Frequency range: 1000MHz

Supply voltage: 3.3V Steady current: 52mA Typ. Output waveform: PECL

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

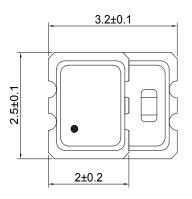
Typical Applications

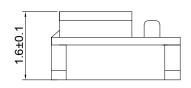
High-Speed Gigabit Ethernet, Fiber **Data Loggers** DSP Clock

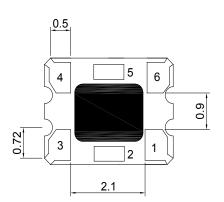
Description

TCXO3225BL-1000MHz-A-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







Pin Connection

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

Unit in mm 1mm = 0.0394 inches

-	0.75	0.68
1.35	1.28 1.28	



Dynamic Engineers Inc.

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

TCXO3225BL-1000MHz-A-V 1000MHz PECL TCXO

Specifications

Oscillator Specification	Sym	Condition	Min.	Value Typ.	Max.	Unit	Note
Operational Frequency	F _{nom}			1000	maxi	MHz	
RF Output	· Hom			.000	Į.		
Signal Waveform							
			50ohm into Vcc-2V or		V or		
Load			Thevenin equivalent				
H-Level Voltage	V _H		Vcc-1.03		Vcc- 0.6		
L- Level Voltage	V_L		Vcc-1.85		Vcc- 1.6		
Rise and fall time			0.2 nS. (Typical) 0.5 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				52		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				
Phase Noise		1KHz			-91	dBc	
		10KHz			-98	dBc	
Control Voltage Function on Pad 1							
Control Voltage Center and Range			+1.5V ± 1.0V				
Frequency Pulling Range			± 8 ppm min.				
Linearity			± 1 % typical. ± 10% max.				
Output Enable Function on pad 2						1	
OE Control			70% of Vcc (min.) to enable output (open connection prohibit) 30% of Vcc (max.) to disable				
Output Enable Time / Disable Time			output 200 nS. Max. / 50 nS. Max.				