TCXO3225AX-32.768KHz

Low phase noise TCXO

Features and Benefits

Frequency range: 32.768KHz Supply voltage: 2.5/3.0/3.3/5.0V Current consumption: 3uA Max

Output waveform: HCMOS or CMOS/TTL

Frequency stability vs. operating temperature: ±3.0ppm

Aging per year: ±3.0ppm Max Phase noise@1KHz: -135dBc/Hz Operating temperature: -40°C to +85°C

Size:3.2x2.5x1.4mm

Typical Applications

Cellular Base Stations Instrumentation Microwave Applications Radar reference

Description

The TCXO3225AX-32.768KHz is designed for applications where exceptional frequency stability and timing is required.

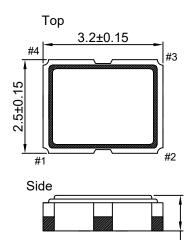
It has both excellent temperature performance and short-term stability.

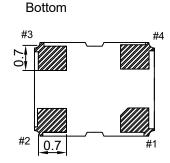
These characteristics make it an excellent choice for timing applications.

Mechanical Drawing & Pin Connections

Drawing No:

MD240032-1





Pin Connections

Pin	Function
1	Output Control
2	GND
3	RF Output
4	Supply Voltage

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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

TCXO3225AX-32.768KHz

Low phase noise TCXO

Specifications

Oscillator	Cum	Condition	Value			Heis	Note
Specification	Sym		Min.	Тур.	Max.	Unit	Note
Frequency Range	F _{nom}			32.768		KHz	
RF Output							
Signal Waveform				CMOS/TTL			
Load	R_L			15		pF	
H-Level Voltage	V_{H}		Vcc-0.4		0.4	V	
L- Level Voltage	V_L				0.4	V	
Duty Cycle			40	50	60	%	
Rise/Fall time					100	ns	
Power Supply							
Supply Voltage	Vcc			2.5,3.0, 3.3,5.0		V	
Current Consumption				1.0	3.0	uA	
Output Enable		Enable—High DisableLow	20%Vcc		80%Vcc		
Startup Time				1	3	Sec	
Frequency Stability							
Versus Operating Temperature Range		Reference to +25°C		±3.0 or ±5.0		ppm	
Initial Tolerance		+25°C		±1.5		ppm	
Versus supply voltage		±5% change			±0.2	ppm	
Versus load		±10% change			±0.2	ppm	
Aging 1 st Year					±3.0	ppm	
		10Hz		-80		dBc/Hz	
Phase noise @25°C		100Hz		-115		dBc/Hz	
THUSCHOISE WZU C		1kHz		-135		dBc/Hz	
		10kHz		-138		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range	-20°C to +70°C, -40°C to +85°C						
Storage temperature range	-50°C to +	+100°C					