Features and Benefits

Frequency range: 120MHz

Supply voltage: 12V

Power consumption: 1.5W Max. Output waveform: Sinewave

Frequency stability vs. operating temperature: 50ppb

Aging: ±200ppb per year

Phase noise@100KHz: -173dBc/Hz
Operating temperature: -40°C to +85°C

Size: 25.5x25.5x15mm

Typical Applications

Synthesizer Medical Electronics Base Station Instrument

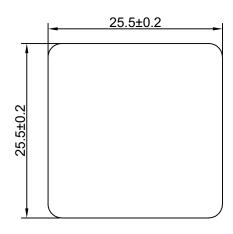
Description

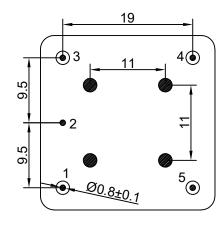
OCXO2525CL-LN-120MHz-A-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

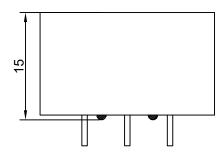
Mechanical Drawing & Pin Connections

Drawing No:

MD240017-1







Pin Connections

Pin	Function
1	Output
2	GND
3	Control Voltage
4	Reference Voltage
5	Supply Voltage

Unit in mm

1mm = 0.0394 inches



Dynamic Engineers Inc.

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OCXO2525CL-LN-120MHz-A-V

High Stability OCXO with Sine Wave Output

Specifications

Oscillator		Condition	Value			11-11		
Specification	Sym		Min.	Тур.	Max.	Unit	Note	
Operational Frequency	F _{nom}			120		MHz		
RF Output								
Signal Waveform			Sinewave					
Load	R_L			50		ohm		
Output Level			+7			dBm		
Harmonics					-40	dBc		
Spurious					-80	dBc		
Power Supply								
Supply Voltage	V _{cc}	±5%		12		V		
Warm-up Time	T _{up}	@ +25 °C	0		5	min	with accuracy of ±100ppb	
Power Consumption					1.5	W		
Frequency Adjustment Range								
Electronic Frequency Control (EFC)			±0.5		±2.0	ppm		
EFC voltage	Vc		0		5	V		
EFC Slope	10		<u> </u>	positive				
Frequency Stability		,	•					
Versus Operating Temperature Range		-40°C to +85°C		50		ppb		
Initial Tolerance @+25°C		At shipment, nominal EFC			±300	ppb		
Versus supply voltage		±5% change			±5	ppb		
Versus load		±5% change	1		±5	ppb		
Short term stability		Test after 15 min			1x10 ⁻¹¹	ppb/s		
Long term stability			±0.2		17.10	ppm		
Aging Per Day								
		after 30 days			±2	ppb		
Aging 1 st Year		operation		±50	±200	ppb		
		10Hz			-100	dBc		
		100Hz			-135	dBc		
SSB Phase noise		1KHz			-160	dBc		
		10KHz			-170	dBc		
		100KHz			-173	dBc		
Environmental, Mechanical Conditions								
Operating temperature range	-40°C to +85°C							
Storage temperature range	-55°C to +125°C							
Temperature stress test	IEC60068,GJB360B							
Mechanical stress test	IEC60068,GJB360B							
EMC test(ESD)	IEC61000,JESD22							
Solderability	EIA/JESD22-B102-C							
RoHS								