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

OCXO2526AXLN-100MHz-A-V

Features and Benefits

Frequency range: 100MHz Supply voltage: 3.3V Steady current: 455mA Typ. Output waveform: Sinewave

Frequency stability vs. operating temperature: ±50PPB

Aging: ±100PPB per year

Phase noise@100KHz: -170dBc/Hz Operating temperature: -40C to +85C

Size: 25.4x25.4x19.0mm

Typical Applications

Cellular Base Stations Instrumentation Microwave Applications Radar reference

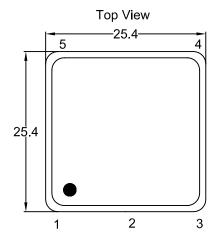
Description

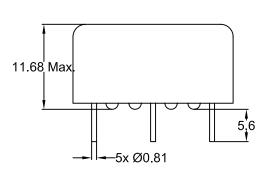
The OCXO2526AXLN-100MHz-A-V are designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and long-term stability. These characteristics make it an excellent choice for timing applications.

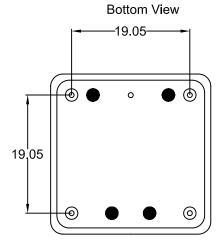
Mechanical Drawing & Pin Connections

Drawing No:

MD200004-3







Pin	Function
1	Output
2	GND
3	Control Voltage/N.C.
4	Reference Voltage/N.C.
5	Supply Voltage

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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

OCXO2526AXLN-100MHz-A-V Š[, ∱ œ-^Á[ã^ÁJÔÝU

Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.	Onit	Note
Frequency Range	F _{nom}			100		MHz	
RF Output							
Signal Waveform				Sinew			
Level			+10		+16	dBm	
Load			47.5	50	52.5	ohm	
Harmonics					-30	dBc	
Spurious					-80	dBc	
Power Supply							
Supply Voltage				3.3		V	
Warm-up Time	T_{up}	To initial tolerance			5	min	
Power Consumption		Steady state		1.5		W	
Fower Consumption		Warm-up			5.2	W	
Frequency Adjustment Range	1	1	T			1	
Electronic Frequency Control (EFC)				±0.5		ppm	
EFC voltage			0		3.3	V	
Input Impedance				100		kΩ	
Linearity				10		%	
EFC Slope				positive			
Frequency Stability							
Versus Operating Temperature Range		ref. 25°C			±50	ppb	
Initial Tolerance		+25°C±1°C			±0.25	ppm	
Versus supply voltage	Vs	±5% change		±5.0		ppb	
Versus load		±5% change		±5.0		ppb	
		Vibration					
Acceleration Sensitivity		profile: 0.001G ² /Hz		1.0		ppb/G	
-		10Hz to 2kHz					
Aging Per Day					±1.0	ppb	
		after 30 days of			±1.0	ррь	
Aging 1 st Year		operation			±100	ppb	
Allen Marianaa		4 -					
Allan Variance		1s		5		e-12	
		10Hz	1	-95 4.05		dBc/Hz	
CCD Dhace raise (400MHz)		100Hz	1	-125		dBc/Hz	
SSB Phase noise (100MHz)		1kHz		-145		dBc/Hz	
		10kHz		-153 170		dBc/Hz	
Environmental, Mechanical Conditions		100kHz		-170		dBc/Hz	
Operating temperature range	-40°C to +	-85°C					
Storage temperature range	-55°C to +100°C						
Shock							
Seal	MIL-STD-202 Method 213 Test Condition D						
Random Vibration	MIL-STD-810G Method 514 Test Procedure I						
Sinusoidal Vibration		202G Method 204 Test					
Cindolidai Vibration	IVIIL-OID-	2020 MOUTOU 204 1630	Condition	171			