

Dynamic Engineers Inc.

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

Features and Benefits

Surface Mountable Design High Stability vs. Temperature Quick Warm-Up Time Low Age Rates Low Phase Noise 25x25mm Package

Typical Applications

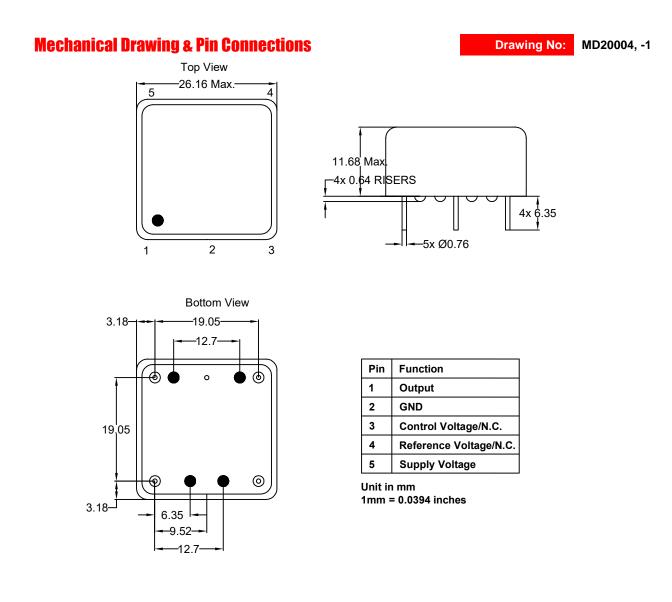
Cellular Base Stations Instrumentation Microwave Applications Radar reference

Description

The OCXO2526AXLG are 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.

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Low-G Low phase noise OCXO



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Specifications

Oscillator	Sym	Condition		Value		Unit	Note
Specification		Contaition	Min.	Тур.	Max.		Note
Frequency Range	Fnom		10		100	MHz	
RF Output				01400	(TT)		
Signal Waveform				CMOS	/IIL		
_oad	RL		000/	15		pF	
H-Level Voltage	V _H		90% Vcc			V	
Level Voltage	VL				10% Vcc	V	
Duty Cycle			45	50	55	%	
Rise/Fall time					10	ns	
Signal Waveform				Sinew	ave		
Level				+7		dBm	
/SWR		Into 500hm		1.5:1			
load			45	50	55	ohm	
larmonics					-30	dBc	
Power Supply							
			11.4	12	12.6		
Supply Voltage	V _{cc}		4.75	5.0	5.25	v	
	- 00		3.13	3.3	3.47	1 ⁻ F	
Varm-up Time	T _{up}	To initial tolerance			3	min	
	·up	Steady state		1.5	~	W	
Power Consumption		Warm-up			4	W	
Frequency Adjustment Range		Walling			•		
Electronic Frequency Control (EFC)				±1		ppm	
		3.3V,5.0V	0		Vcc	V	
EFC voltage		12V	0		10	V	
O set served to ser		5.0V		Vcc/2		V	
Center voltage		12V		5		V	
Input Impedance				100		kΩ	
inearity				10		%	
EFC Slope				positive			
Frequency Stability							
Versus Operating Temperature Range		ref. 25⁰C	±20	±50	±100	ppb	See ordering information
nitial Tolerance		+25°C±1°C			±100	ppb	internation
/ersus supply voltage	Vs	±5% change		±2		ppb	
/ersus load	3	±5% change		±2		ppb	
Acceleration Sensitivity		10MHz output, Vibration profile: 0.001G ² /Hz 10Hz to 2kHz	0.3	0.5		ppb/G	
Aging Per Day		after 30 days of			±1.0	ppb	
Aging 1 st Year		operation			±100	ppb	
Allan Variance		1s	1	5		e-12	
		1	1	Sine/CMOS			
		1Hz	Ì	-90/-90		dBc/Hz	
		10Hz	t	-120/-120		dBc/Hz	
SSB Phase noise (10MHz)		100Hz	1	-140/-140		dBc/Hz	At 25°C
		1kHz		-145/-145		dBc/Hz	
		10kHz	1	-150/-150		dBc/Hz	
		100kHz	1	-155/-155		dBc/Hz	
Environmental, Mechanical Conditions							
Dperating temperature range	See orde	ring information					
Storage temperature range	-55°C to						
Mechanical shock		202 Method 213 Test Co	ondition	J			
Seal		202 Method 112 Test C					
/ibration		202 Method 201					

Note: Values typical under 10MHz

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Ordering Information

OCXO2526AXLG	-	10MHz	-	Х	Х	Х	Х	Х	Х
Group				01	02	03	04	05	06

For example, OCXO2526AXLG-10MHz-1-1-2-2-2-2- denotes the OCXO has the following specifications:

Frequency:	10MHz
Temperature Range:	-20°C to +70°C
Stability Over Temperature:	±20ppb
EFC:	±1ppm
Supply Voltage:	5V
Supply Voltage:	5V
Output:	Sinewave
Reference Voltage:	2.8V

01	Temperature Range		
Code	Specification		
1	-20°C to +70°C		
2	-40°C to +85°C		

02	Frequency Stability
Code	Spec
1	±20ppb
2	±50ppb
3	±100ppb

03	EFC
Code	Specification
1	N/A
2	±1ppm

04	Supply Voltage
Code	Specification
1	3.3V
2	5V
3	12V
4	15V

05	Output
Code	Specification
1	CMOS/TTL
2	Sinewave

07	Reference Voltage		
Code	Specification		
1	N/A		
2	2.8V (2.6-3.0)		
3	4.5V (4.3-4.7)		