

Dynamic Engineers Inc.

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OCXO2525BJ-LN-125MHz-A-V

Low phase noise Low G sensitivity 125MHz OCXO Oven Controlled Crystal Oscillator

Features and Benefits

Frequency range: 125MHz Supply voltage: 12V

Steady current: 150mA/Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±50ppb

Aging: 500ppb per year

Phase noise@100KHz: -177dBc/Hz Operating temperature: -20°C to +70°C

Size: 25.8x25.8x12.7mm Package type: Through hole



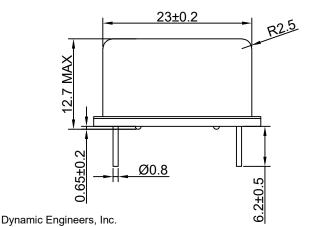
Typical Applications

Test & Measurement Equipment Radar Systems Instrumentation Reference Microwave Communication Clock Reference for Microwave Signal Source Synthesizer Reference Clock Telecom Systems

Description

OCXO2525BJ-LN-125MHz-A-V offers a solution for applications with high dynamic phase noise requirements. It has better phase noise performance and good G sensitivity.

Mechanical Drawing & Pin Connections



Drawing No:

MD240053-1

Pin Connections

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

Unit in mm

1 mm = 0.0394 inches

Rev. 1

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OCXO_Oven Controlled Crystal Oscillator

Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.	Onit	Note
Operational Frequency	F ₀			125		MHz	
RF Output							
Signal Waveform	Sine wave						
Output Level			+10			dBm	
Load		±5%		50		ohm	
Harmonics level					-30	dBc	
Spurious		10 Hz to 1 KHz from carrier			-80	dBc	
Power Supply		Camei					
Supply Voltage	V _{cc}	±5%		12		l v l	
Reference Voltage	Vref	+5%		10		V	
Reference voltage	viei	within ± 50 ppb		10		V	
Warm-up Time	T _{up}	referred to final frequency after 1 hr			5	min	
		Steady state			150	mA	
Power Consumption		Warm-up			350	mA	
Frequency Adjustment Range		Walli up			000	1117 (
Electronic Frequency Control (EFC)			±3			ppm	
EFC voltage	V _c		0		10	V	
Linearity	* 0				10	%	
Slope			Positive		70		
Frequency Stability				1 0011110			
Versus Operating Temperature Range		-20°C to +70°C			±50	ppb	
Initial Tolerance		after power on for 30 min			±300	ppb	
Versus supply voltage		±5% change			±5	ppb	
Versus load		±5% change			±5	ppb	
G sensitivity		Worst axis			1	ppb/G	
Aging Per Day		After 30 days of			±5	ppb/C	
Aging 1st Year		continuous				···	
, ig. i g i i oui		operation			±500	ppb	
Phase Noise @100 MHz		10Hz	<=-100		dBc		
		100Hz	<=-135		dBc		
		1kHz	<=-162		dBc	<u> </u>	
		10kHz	<=-174			dBc	
		100kHz	<=-177			dBc	
Operating temperature range	-20°C to						
Storage temperature range	-45°C to	+90°C					