

Dynamic Engineers Inc.

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

Features and Benefits

Frequency range: 200MHz Supply voltage: 11.5V Steady Power: 1.8W/Max Output waveform: Sinewave Frequency stability vs. operating temperature: ±50ppb Aging: ±200ppb per year Phase noise@100KHz: -167dBc/Hz Operating temperature: -40°C to +85°C Size: 25.8x25.8x12.7mm

Typical Applications

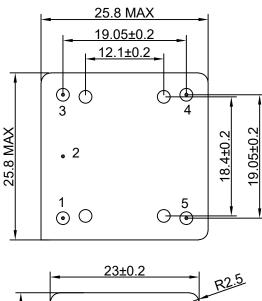
Military Applications Airborne, Aircraft, Helicopter Radar Systems Cargo

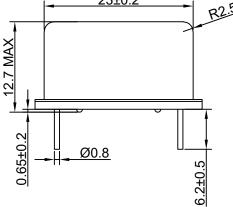
Description

OCXO2525BJ-200MHz-A-V offers a solution for applications with high dynamic phase noise requirements under wide operation temperature.

Mechanical Drawing & Pin Connections

Drawing No: MD24005' -1





Pin Connections

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

Unit in mm 1mm = 0.0394 inches

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Rev. 1

Dynamic Engineers reserves the right to make changes to the company datasheet(s) along with other information contained inside; such as data tables and araphs without notification to potential customers who may have earlier revisions in their possession.



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Specifications

Oscillator	Sym	Condition		Value		Unit	Note
Specification			Min.	Тур.	Max.	Unit	
Operational Frequency	Fo			200		MHz	
RF Output							
Signal Waveform				Sine v	vave		
Output Level			+6	+8	+10	dBm	
Load		±10%		50		ohm	
Harmonics level					-25	dBc	
Sub-Harmonics level					-35	dBc	
Spurious		100 Hz to 5 MHz from carrier			-75	dBc	
Power Supply							
Supply Voltage	V _{cc}	±5%		11.5		V	
Warm-up Time	T_{up}	@ +25 °C within ± 5 x 10 ⁻⁸ of final frequency after 1 h			5	min	
		Steady state, +25°C			1.8	W	
Power Consumption		Warm-up			4.3	W	
Frequency Adjustment Range							
Electronic Frequency Control (EFC)			±2.5			ppm	
EFC voltage	Vc		0		10.0	V	
Slope				Positive			
Linearity					10	%	
Frequency Stability							
Versus Operating Temperature Range		-40°C to +85°C			±50	ppb	
Initial Tolerance		V _c = +5.0 V; after power ON for 60 min.			±200	ppb	
Versus supply voltage		±5% change			±5.0	ppb	
Versus load		±10% change			±5.0	ppb	
G-Sensitivity (all three axis)					1	ppb/g	
Aging Per Day		After 30 days of continuous			±5.0	ppb	
Aging 1 st Year		operation			±200	ppb	
		100Hz			-119	dBc	
Phase noise		1kHz			-139	dBc	
		10kHz			-159	dBc	
		100kHz			-167	dBc	
Environmental, Mechanical Conditions							
Operating temperature range	-40°C to +85°C						
Storage temperature range	-55°C to	+105°C					

Test Conditions: TA = $+25\pm3^{\circ}$ C, V_c = 5 Volt unless otherwise identified