

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: 100MHz Supply voltage: 12.0V Steady current: 150mW Output waveform: Sinewave Frequency stability vs. operating temperature: ±300ppb Aging: 300ppb/year Phase noise@100KHz: -175dBc/Hz Operating temperature: 0°C to +50°C Size: 25.4x22x13.2mm

Typical Applications

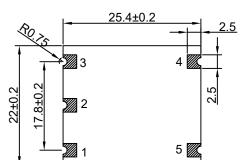
SATCOM System Cellular Base Stations Radar Applications

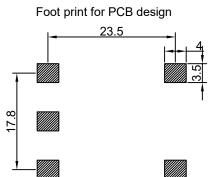
Description

OCXO2522AN-LN-100MHz-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: MD240027-1







Ba 13.2

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

Unit in mm 1mm = 0.0394 inches

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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		Condition	Min.	Тур.	Max.		Note	
Operational Frequency	Fnom			100		MHz		
RF Output								
Signal Waveform			Sinewave					
Load	R_L			50		ohm		
Output Power			13			dBm		
Harmonic					-40	dBc		
Power Supply								
Supply Voltage	V _{cc}		11.75	12	12.25	V		
Bower Concumption		Steady state			150	mA		
Power Consumption		Warm-up			300	mA		
Frequency Adjustment Range								
Reference Voltage Output	V _{ref}		7.9	8	8.1	V		
Tuning Voltage			0	4	8	V		
Tuning Range			-1		+1	ppm		
Frequency Stability								
Versus Operating Temperature Range				±300		ppb		
Initial Frequency Accuracy			-50		+50	ppb		
Versus Supply Voltage					5	ppb		
Versus Load					5	ppb		
Aging Per Day					5	ppb		
Aging 1 st Year					300	ppb		
		10Hz			-97	dBc/Hz		
		100Hz			-130	dBc/Hz		
Phase noise		1kHz			-157	dBc/Hz		
		10kHz			-173	dBc/Hz		
		100kHz			-175	dBc/Hz		
Environmental, Mechanical Conditions				•				
Operating temperature range	0°C to +50°C							
Storage temperature range	-40°C to +	85°C						