

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

10MHz; +7dBm typ. Low noise output Less than ±100ppb over -5°C to +85°C Surface mount package ±3ppm aging over 10 years

Typical Applications

Synthesizers Wireless Communication SATCOM Test Equipment

Description

Established volume production surface mount OCXO using highly reliable production assembly and crystal manufacturing processes.

Mechanical Drawing & Pin Connections

Drawing No:MD160044-2



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RF Output

GND

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OCXO2525S-10MHz-A-V SMD package OCXO

Specifications

Oscillator Specification		Condition		Value				Unit	Nete
			Condition		Ту	γp	Max.	Unit	Note
Nominal Frequency					10.00	0000		MHz	
RF Output									
Output Wave Form					Sine	wave			
Level				+7				dBm	
Load					50	0		Ω	
Harmonic							-30	dBc	
Spurious							-60	dBc	
Power	Supply	1			•				1
Voltage				4.75	5.0)0	5.25	V	
Current			@ turn on				500	mA	
Steady State			@+25°C				0.8	W	
Frequency Adjustment								l	
		Refer	enced to frequency at nominal						
Range			Center Voltage	±5				ppm	
Control			<u> </u>	0			+5	V	
Slope					Posi	tive			
Center Voltage					+2	.5		V	
Linearity				-10			+10	%	
Input Impedance				50				kΩ	
Freque	ency Stability								
			@ 25±1°C						
Initial Accuracy		aft	er turn on power 30±5 mins						
		≤g	0 days following date code	-1.0		+1.0	ppm		
		VCO input voltage @ Center Voltage							
			±0.001V						
Ambient			-5°C to +85°C	-0.1			+0.1		
			25° C to 5° C	03			±0 3	nnm	Referenced
			-23 0 10 -5 0	-0.5			10.5	ppm	to +25°C
			-40°C to -25°C	-1			+1		
		P	er day, at time of shipment	-5			+5	ppb	
Aging	Daily		After 30 days	-5			+5	ppb	
	Yearly			-0.5			+0.5	ppm	
	10 years			-3.0			+3.0	ppm	
Voltage	е		±5% change	-30			+30	ppb	
Short Term		Root Allan variance					1	ppb/s	
							1	ppb/10s	
Warm-up			In 5 minutes @+25+1°C				+0.5	nnm	Reference
				-0.5			10.5	ppin	to 1 hour
Phase	Noise								
			10Hz -100		-				
Phase noise		100 Hz 1 kHz 10 kHz					-130	dBc/Hz	
							-140	ube/112	
							-145		
Environmental Conditions									
Parameter			Reference Std.			Test Condition			
Operating temperature range		re range	-40°C to +85°C						
Storage temperature range			-40°C to +85°C						
Soldering Temperature			Maximum Re-flow Temp <250°C						
Vibration (non-operating)			MIL-STD-202, Method 201 0.06"Total p-p, 10 to 55Hz					2	
Shock (non-operating)			MIL-STD-202, Method 213, Test Condition J 30g, 11ms, half-sine					f-sine	
Cleaning						Aqueous cleaning is FORBIDDEN			
Re-flow					Bottom side assembly is FORBIDDEN				

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Revision: 1

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