

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: 40MHz Supply voltage: 3.3V Steady state: 1.5W Max Output waveform: HCMOS Frequency stability vs. operating temperature: +-5ppb Aging: +-200ppb per year Phase noise@10KHz: -150dBc/Hz Operating temperature: 0°C to +70°C Size:25.8x25.8x12.7mm

Typical Applications

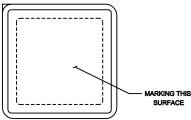
Small Cell, Portable Telecommunication Device Test and Instrumentation Synthesizer, Digital switch, Reference Timing Circuit Packet Timing Protocol ATCOM System

Description

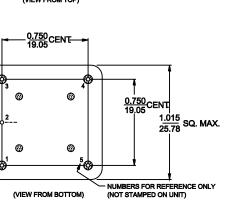
OCXO2525BM-40MHz-A-V is designed for applications where exceptional frequency stability and timing is required. It has both excellent temperature performance and short-term stability. These characteristics make it an excellent choice for timing applications.

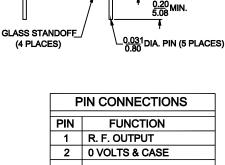
Mechanical Drawing & Pin Connections

Drawing No: MD210013-1



(VIEW FROM TOP)



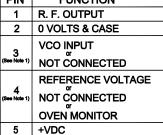


0.026

0.66

0.50

12.70



Note 1. If the specification does not specify parameters for either PIN3 or PIN4 then that respective PIN is NOT internally CONNECTED.

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Rev. 2

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 Specification	Sym	Condition	841	Value		Unit	Note
Operational Frequency	F _{nom}		Min.	Тур. 40	Max.	MHz	
RF Output	nom			40			
Signal Waveform				HCM	108		
Load	RL		HCMOS 15pF			1	
High Level	ΓL		+2.4	тэрг	1	V	
Low Level			72.4		+0.4	V	
Duty Cycle		@+1.4V	45	50	55	%	
Rise/Fall time		10% to 90%	45	50	6	ns	
Sub-harmonics		10 /0 10 30 /0			-30	dBc	
Power Supply					-30	UDC	
Supply Voltage	Vs		3.135	3.3	3.465	V	
Steady state	VS	+25°C	5.155	5.5	1.5	W	
Current		Warm-up			1000	mA	
Frequency Stability		wann-up			1000	IIIA	
requency otability		0℃~+70℃ ref to				1	
Versus Operating Temperature Range		+25℃	-5		+5	ppb	
Initial Frequency Accuracy		@ +25 ±1℃ after	-0.2		+0.2	ppm	
		turn on power 15 ±1					
		minutes 90 days					
		following date code					
		VCO Input voltage					
		@ Center Voltage ±					
		0.001V					
Versus supply voltage		±5% change	-10		+10	ppb	
Versus Load		±5% change	-10		+10	dqq	
A		Per day, at time of	0		.0	a a la	
Aging		shipment	-2		+2	ppb	
Aging Per Day		after 30 days	-2		+2	ppb	
Aging 1 st Year			-200		+200	ppb	
Aging 10 Years							
			-0.8		+0.8	ppm	
Warm-up		In 5 minutes@25±1°C	-0.1		+0.1	ppm	Reference to 1 hour
Phase Noise		100Hz		-130	1	dBc/Hz	noui
		1kHz		-140		dBc/Hz	
		10kHz		-150		dBc/Hz	
Environmental, Mechanical Conditions				100		0.00/112	
Operating temperature range	0°C to 70°						
Storage temperature range	-40°C to 85°C						
Humidity	MIL-STD-202, method 103, test condition B; 95% RH@+40°C, non-condensing,96 hours						
Vibration (non-operating)	MIL-STD-202, method 201; 0.06" total p-p, 10-55Hz						
Shock (non-operating)		202, method 201, 0.00 202, method 213, test co			alf_cino		