Features and Benefits

Frequency range: 40MHz Supply voltage: 12.0V Steady state: 1.5W Max Output waveform: Sinewave

Frequency stability vs. operating temperature: ±10.0ppb

Aging: ±100ppb per year

Phase noise@100Hz: -130dBc/Hz Operating temperature: -30°C to +70°C

Size:25.7x25.7x12.7mm

Typical Applications

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

Description

OCXO2525BM-40MHz-B-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.

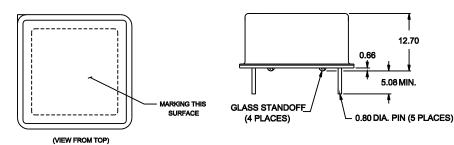
Mechanical Drawing & Pin Connections

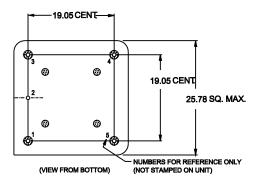
Drawing No:

12.70

5.08 MIN.

MD240013-1





PIN CONNECTIONS						
PIN	FUNCTION					
1	Output					
2	0 Volts & Case					
3 (See Note 1)	VCO Input ه N.C.					
4 (See Note 1)	Reference Voltage N.C. Oven Monitor					
5	Supply Voltage					

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



Dynamic Engineers Inc.

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OCXO2525BM-40MHz-B-V 25.7x25.7x12.7mm 40MHz OCXO

Specifications

Oscillator	Sym	Condition	Value			Unit	Note
Specification			Min.	Тур.	Max.		
Operational Frequency	F _{nom}			40		MHz	
RF Output							
Waveform			Sinewave				
Level			+5			dBm	
Load				50		ohm	
Harmonics					-30	dBc	
Spurious					-70	dBc	
Power Supply							
Supply Voltage	Vs		+11.4	+12.0	+12.6	V	
Steady state		+25°C			1.5	W	
Current		@ turn on			400	mA	
Frequency Stability							
Versus Operating Temperature Range		-30°C to +70°C,ref to +25°C	-10		+10	ppb	
Initial Frequency Accuracy		@ +25 ±1°C; after turning on power 15 ±1 minutes; <=90 days following date code	-0.3		+0.3	ppm	
Versus supply voltage		±5% change	-10		+10	ppb	
Versus Load		±5% change	-10		+10	ppb	
Short Term		1 sec		0.02		ppb/s	Root Allan
Short reim		10 sec		0.04		ppb/10s	variance
Aging Per Day			-1.0		+1.0	ppb	
Aging 1 st Year		after 30 days	-100		+100	ppb	
Aging 10 Years			-0.8		+0.8	ppm	
Warm-up		In 5 minutes @25±1°C	-50		+50	ppb	Reference to 1 hour
Phase Noise		100Hz		-130		dBc/Hz	
Environmental, Mechanical Conditions							
Operating temperature range -30°C to +70°C							
Storage temperature range	-55°C to +125°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 to 55 Hz						
Shock (non-operating)	MIL-STD	-202, Method 213, Test Cor	ndition J. 30	g, 11ms, ha	alf-sine		