TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com



Features and Benefits

Ensures TIE of <400 nSec for 24 hours Standard frequency: 10.0 MHz

Standard package: 50.8x50.8x19 mm

Power supply: 5 V Analog frequency control

Typical Applications

5G

Telecommunication
Test & Measurement

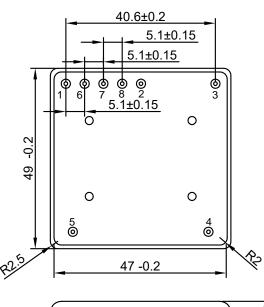
Description

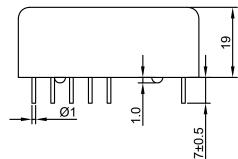
DOCXO5051AN-10MHz-A-V offers high frequency stability, low long-term aging and low phase noise, all in a compact package to suit the different communication needs.

Mechanical Drawing & Pin Connections

Drawing No:

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Pin Connections:

Pin#	Function
1	Control Voltage
2	Reference Voltage Output
3	RF Output
4	Ground
5	Supply Voltage
6	GND For Control Voltage Input
7	Not Used
8	Not Used

Unit in mm 1mm = 0.0394 inches



Dynamic Engineers Inc.

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

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Double Oven Ultra Precision OCXO

Specifications

Oscillator	Sym	Condition	Value				
Specification			Min.	Тур.	Max.	Unit	Note
Operational Frequency	F _{nom}			10		MHz	
RF Output							
Signal Waveform			Sinewave				
Load	R_L		50ohm±5%				
Level Voltage	V _H		300			mV	RMS
Harmonics					-30	dBc	
Power Supply							
Supply Voltage	Vs	±5%		5		V	
· · · ·		Steady state, +25°C			800	mA	
Power Consumption		Warm-up			2000	mA	
Marm un Tima	_	within accuracy of			15	min	
Warm-up Time	T_{up}	<±5x10 ⁻⁸ @ 25°C				min	
Frequency Control							
Frequency pulling range			0.25			ppm	
Control voltage range			0		4.1	V	
Reference voltage				4.1		V	
Frequency Stability							
Versus Operating Temperature Range		0°C to 50°C			0.1	ppb	
Versus Load		±5%			±1x10 ⁻¹¹		
Versus supply voltage		±5%			±1x10 ⁻¹¹		
Aging		@First year			30	ppb	
Short term stability (Allan deviation)		per 1 sec			2x10 ⁻¹²		
		1Hz			-100	dBc	
		10Hz			-130	dBc	
SSB Phase noise		100Hz			-150	dBc	
		1kHz			-150	dBc	
		10kHz			-155	dBc	
Environmental, Mechanical Conditions							
Operating temperature range							
Storage temperature range	-55°C to 85°C						
Vibration 10 to 200Hz							
Acceleration	5g						
Shock 75 g/ 3±1 ms							
Humidity @ 25°C 98%							