

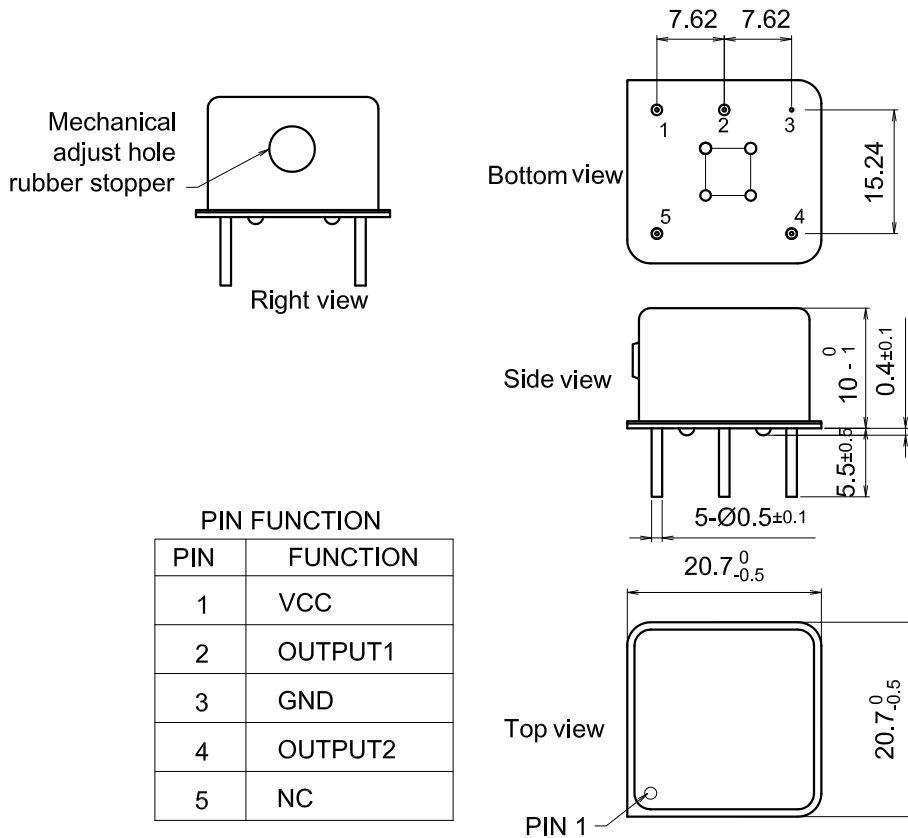
Features

- +/- 0.5 ppm stability
- 40C to 80C
- 18.432 MHz output
- 110.592 MHz output
- Mechanical Frequency Adjust

Description

The TCXO2020K family provides the customer two 50 ohm sine wave outputs with 0.5 ppm stability in a rugged leaded package

Mechanical Drawing and PIN Connections



Note1: Tolerance +/-0.2mm without mark.

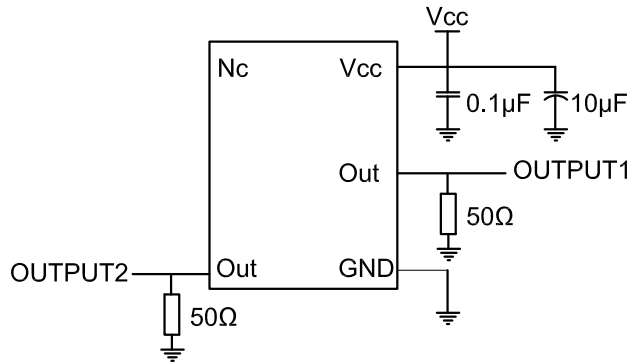
Note2: Referential weight 6.75g.

Note3: NC is not connect.

Specification

1. Electrical Parameters							
DEI MODEL: TCXO2020K-18.432-110.592MHz							
Item	Description	Parameters			unit	Test Condition	
		Min	Typ.	Max			
Output	Output 1	Frequency	18.432			MHz	
		Output Waveform	Sine Wave				
		Level	5			dBm	$O_{load}=50\Omega$
		Harmonic			-35	dBc	
		Spurious			-70	dBc	
	Output 2	Frequency	110.592			MHz	
		Output Waveform	Sine Wave				
		Level	5			dBm	$O_{load}=50\Omega$
		Harmonic			-30	dBc	
		Spurious			-60	dBc	
Channel Isolation		40			dB		
Load		50			Ω		
Frequency Stabilities	Frequency Tolerance vs Operatin Temperature Range	-0.5		+0.5	$\times 10^{-6}$	Ta varied from -40c to 80c,measurement referenced to frequency observed with Ta=25c Vcc=5.0V, $O_{load}=50\Omega$,tempreature variable spced less than 2c per minute.	
	Initial Frequency Tolerance	-0.5		+0.5	$\times 10^{-6}$	Measurement referenced to frequency observed with Ta=25c Vcc=5.0Vwithin 30days after ex-works.	
	Frequency Tolerance vs Supply Voltage	-0.1		+0.1	$\times 10^{-6}$	measurement referenced to frequency observed with Ta=25c Vcc varied from 4.75V to 5.25V and $O_{load}=50\Omega$.	
	Frequency Tolerance vs Load	-0.1		+0.1	$\times 10^{-6}$	5% load change measurement referenced to frequency observed with Ta=25c Vcc=5.0V, $O_{load}=50\Omega$.	
	Aging Tolerance Per Day	-0.02		+0.02	$\times 10^{-6}$	Ta=25c Vcc=5.0V, and after 1h of operation.	
	Aging Tolerance 1 Year	-1		+1	$\times 10^{-6}$		
Power Supply	Current Consumption		20		mA	@25C,Vcc=5.0V, $O_{load}=50\Omega$.	
	Supply Voltage	4.75	5	5.25	V		
Mechanical Adjust	Frequency Adjust Range			-10	$\times 10^{-6}$		
Phase Noise	Phase Noise(18.432MHz)			-135	-130	dBc/Hz	1KHz
				-145	-140		10KHz
				-150	-145		100KHz
	Phase Noise(110.592MHz)			-110	-105		1KHz
Environmen tal Conditions	Operable Temperature	-40		+80	C		
	Storage Temperature	-55		+105	C		
	ESD level	Human Boday Model,class2:2000V to 4000V,ANSI/ESDA/JEDECJS-001-Machine Model,class B:200V to 400V,ANSI/ESDA/JEDECJS-001-2010.					
	Moisture Sensitivity Level	Level 2.					
	Vibration	Test Condition:0.75mm,acceleration:10g:10Hz~2000Hz,one cycle per 30 min. test 2 hour.(3 times for each 3 directions X,Y,Z).IEC 68-2-06 Test Fc.					
	Shock	100g;6ms;half sine wave(3 times for each 3 directions X,Y,Z),IEC 68-2-06 Test Fa/Severity 50A.					

Test circuit



Wave Soldering Curve (RoHS)

