



Approved by:
Checked by:
Issued by:

SPECIFICATION

P/N: SJKOCB5026JK-10MGJM

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OCXO Specification

Frequency: 10.000MHz

Version: 1.0 2022.6.22

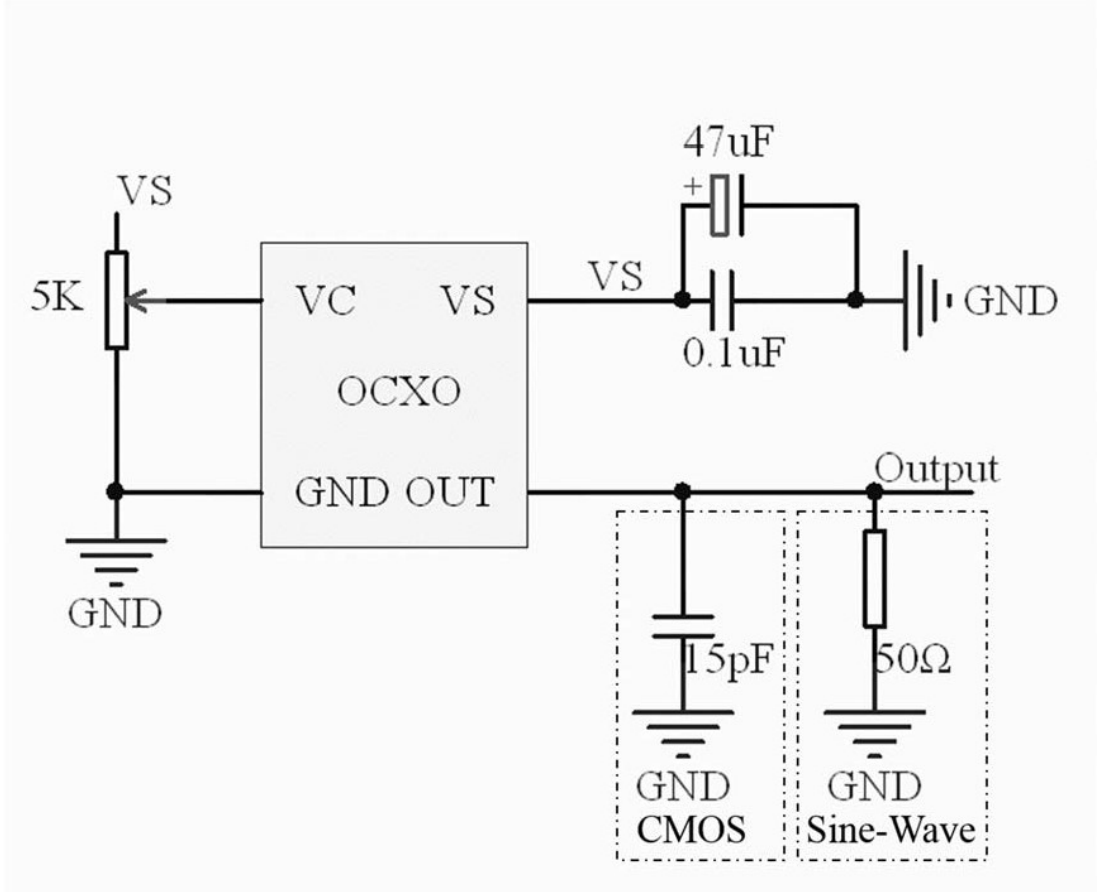
Parameter		Min	Typ.	Max	Unit	Condition	Note
Frequency Stability							
Frequency			10.000		MHz		
Initial Frequency Accuracy		-100		+100	ppb	V _c =2.5V@25°C after 15mins power on ref to nominal frequency.	
Supply Variation		-2.0		+2.0	ppb	V _s ±5%@25°C	
Load Variation		-2.0		+2.0	ppb	CL±10%@25°C	
Aging	per day	-0.5		+0.5	ppb	Aging after 30 days of operation	
	The first year	-75		+75	ppb		
	10 years	-0.4		+0.4	ppm		
Temperature Stability		-50		+50	ppb	-40°C ~ +85°C refer to 25°C	
Short Term Stability (in still air)				0.01	ppb/s	after power on 1hour,@25°C	
Warm -up time				1.0	min	Within ±100 ppb of final frequency with reference after 1 hour on@+25°C	
Supply Voltage/Current							
Voltage Supply		4.75	5.0	5.25	V		
Operating Current				700	mA	during warm up	
				200	mA	at steady state,@25°C	
Output Characteristics							
Sine-Wave	Load		50		Ω		
	Output Level	7.0			dBm		
	Harmonic Level			-30	dBc		
Spurious				-80	dBc		

Phase Noise						
Phase Noise			-80	dBc/Hz	@1Hz	
			-110		@10Hz	
			-130		@100Hz	
			-150		@1KHz	
			-153		@10KHz	
			-155		@100KHz	
Voltage Control Characteristics						
Control Voltage Range	0.0	2.5	5.0	V		
Frequency tuning range			-1.0	ppm	Vc=0.0V	
	-100		+100	ppb	Vc=2.5V	
	+1.0			ppm	Vc=5.0V	
Slope	Positive					
Linearity			10	%		
Input Impedance	100			K Ω		
Mechanical specification & Package						
Package Size	Refer to the below drawing					
Pin Connector Size						
Pin Connector Definition						
ROHS	RoHS compliant					

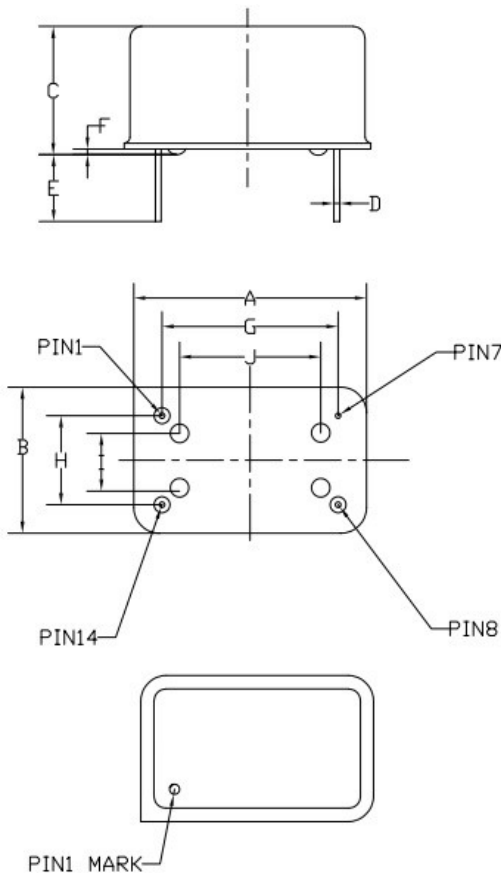
Note: The final specification should be subject to our final confirmation.

Environmental, Mechanical Conditions	
Operating temperature range	-40℃~+85℃
Operable temperature range	-40℃~+85℃
Storage temperature range	-55℃~+105℃
Moisture sensitivity level	MSL1
ESD	HBM.2kV
Drop Test	The test shall be carried out as the provisions of the IEC60068-2-32 test Ed. 10cm height, 3 times on hard board with thickness of 3cm
Vibration test	The test shall be carried out as the provisions of the IEC60068-2-06 test Fc. Frequency range:10Hz~500Hz Acceleration:10g Displacement:0.75mm@10Hz Sweep time:1.5 hours total(sweep for 30 minutes in each direction)
Mechanical Shock	The test shall be carried out as the provisions of the IEC60068-2-27 test Ed. 50g, 11ms duration, 1/2 sine wave, 3 shocks each direction along 3 mutually perpendicular planes.
Thermal shock	0.5h@-40℃， 0.5h@+85℃， Note: The changing time < 30 seconds, cycling for 100 times.

Test Circuit:



Dimensions



Pin Function:

Pin No.	Pin Function
1	VC
7	GND
8	Output
14	VS

Symbol	Dimension (mm)	
	Min	Max
A		20.5
B		12.9
C		10.8
D	0.4	0.5
E	5.0	6.0
F	0.4	0.8
G	15.0	15.4
H	7.4	7.8
I	5.35 nominal	
J	10.7nominal	