Features and Benefits

Ultra Low Phase Noise OCXO Sine wave output Frequency Tuning Input 3 minutes max warm-up 20.5x20.5x12mm max

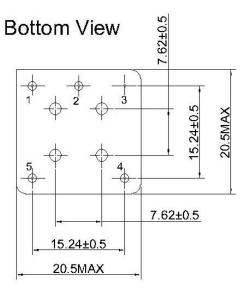
Description

The OCXO2023L family offers a specially designed from 80 to 125MHz crystal impedance matched to the oscillator and amplifier circuits to deliver consistent world class phase noise on all production shipments

Typical Applications

Ref. for Microwave comm. System Signal analyzer reference for internal synthesizers SATCOM systems

Mechanical Drawing & Pin Connections



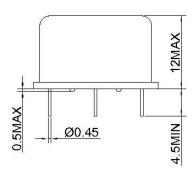
Drawing No: MD140063-1

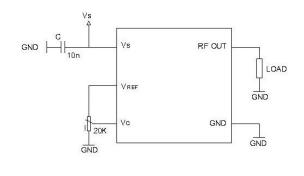
Pin Connections:

Pin	Symbol	Function					
1	Vs	Supply Voltage					
2	RF OUT	RF Output					
3	GND	Groung					
4	Vc	Control Voltage(EFC)					
5	VREF	Reference Voltage					

Unit: mm

Side View





Specifications

OCXO Specification		Com	Condition	Value			Heis	Note					
		Sym	Condition		Min.	Тур.	Max.	Unit	Note				
Frequency Range			F ₀			80	125		MHz	I			
Standard Frequencies						,	100.000/120.00	00	MHz				
RF Output			•	•					•				
Output Wav	eform				Sine wave								
Load			RL	+/-5%		50			Ohm				
Output Level						+7			dBm				
Harmonics								-30	dBc				
G-Sensitivity				Per /	Axis			1.0	ppb/g				
Power Sup	ply												
Voltage			Vcc			11.4	12.0	12.6	V				
Current Consumption(Steady State)			ISteady IWarm-	@+25°C				100	mA				
Current Cor	Current Consumption(Warm-up)							300	mA				
Warm-up Time@+25°C			up	△ffinal/f0<+/-0.1ppm				3	min				
Frequency	Control*												
	Electronic Frequency Control(EFC)					+/-1	+/-2		ppm				
Reference (Output		VREF				10.0		V				
	EFC Voltage		Vc			0		VREF	V				
	EFC Input Impedance					100			Kohm				
EFC Slope			△f/Vc				Positive						
Frequency													
Initial Tolerance @+25°C				Vc @ \	√REF/2		+/-100	+/-200	ppb				
Vs. Operating Temperature Range				Steady state				+/-25	ppb	For more information, Please consult sale			
Vs. Supply Voltage Variation(Pushing)				Vs+/-5%				+/-10	ppb				
Vs. Load Change(Pulling)				Load+/-5%				+/-5	ppb				
Aging	Long Term Per Day			After 30days operation				+/-2	ppb	Optional			
	Long Term 1 st Year			After 30days operation				+/-200	ppb	Optional			
Phase Nois	se												
Offset			100MHz			120MHz			Unit				
	A	В	С	D	E	A	В	С	D	Е	Offic		
10Hz	-90	-95	-97	-100	-105	-85	-90	-95	-97	-100			
100Hz	-125	-130	-132	-135	-137	-118	-122	-125	-127	-130	↓		
1kHz	-150	-153	-155	-157	-158	-148	-150	-151	-153	-155	dBc/Hz		
10kHz >=100kHz	-160 -170	-160 -170	-160 -170	-163 -170	-165 -170	-160 -170	-160 -170	-160 -170	-161	-163 -170			
Environmental			-170	-170	-170	-170	-170	-170	-170	-170			
		Dango	55°C to	. +05°C									
Operating Temperature Range Packing			Palette	-55°C to +85°C									
Size				20.5x20.5x12mm max									
Weight				10g max									
**Cigit			i rog ma	•									