

Features and Benefits

- High stability OCXO
- Sine wave output
- Frequency Tuning Input
- 5 minutes max warm-up
- 20.5x20.5x12mm max

Description

The OCXO2021L family offers a specially designed from 10 to 125MHz SC-Cut or AT-Cut crystal impedance matched to the oscillator and amplifier circuits to deliver consistent world class phase noise on all production shipments

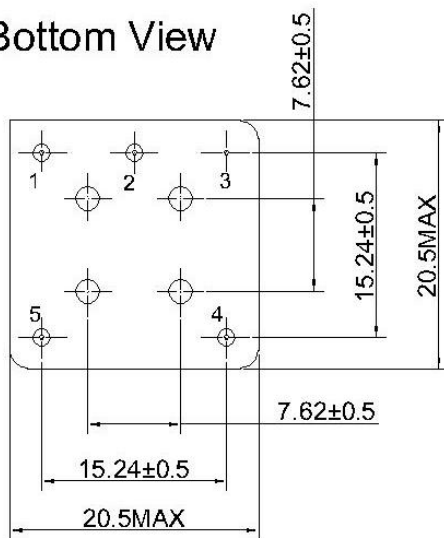
Typical Applications

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

Mechanical Drawing & Pin Connections

Drawing No: MD140063-1

Bottom View

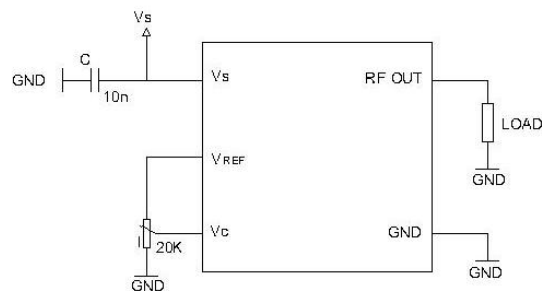
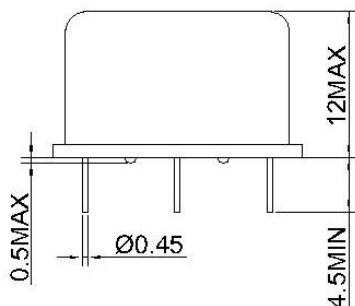


Pin Connections:

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

Unit : mm

Side View



OCXO2021L**High Stability Miniature OCXO****Specifications**

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F ₀		10		125	MHz	
Standard Frequencies			10.000/40.000/100.000			MHz	
RF Output							
Output Waveform			Sine wave				
Load	R _L	+/-10%		50		Ohm	
Output Level			+3			dBm	
Harmonics					-25	dBc	
Power Supply							
Voltage	V _{cc}		3.15	3.3	3.45	V	Optional
			4.75	5.0	3.45		
			11.6	12.0	12.6		
Current Consumption(Steady State)	I _{Steady}	@ V _{cc} =3.3V			300	mA	Optional
		@ V _{cc} =5.0V			200		
		@ V _{cc} =12.0V			100		
Current Consumption(Warm-up)	I _{Warm-up}	@ V _{cc} =3.3V			800	mA	Optional
		@ V _{cc} =5.0V			600		
		@ V _{cc} =12.0V			300		
Warm-up Time@+25°C		△f _{final} /f ₀ <+/-0.1ppm		3	5	min	
Frequency Control*							
Electronic Frequency Control(EFC)		For AT-Cut	+/-2		+/-5	ppm	
		For SC-Cut	+/-0.8				
Reference Output	V _{REF}	@ V _{cc} =3.3V		3.0		V	Optional
		@ V _{cc} =5.0V		4.0		V	
		@ V _{cc} =12.0V		5.0		V	
EFC Voltage	V _c		0	V _{REF} /2	V _{REF}	V	
EFC Input Impedance			100			Kohm	
EFC Slope	△f/V _c			Positive			
Frequency Stability							
Initial Tolerance @+25°C		V _c @ V _{REF} /2			+/-300	ppb	
Vs. Operating Temperature Range		Steady state			+/-10	ppb	For more information, Please consult sale
Vs. Supply Voltage Variation(Pushing)		Vs+/-5%			+/-10	ppb	
Vs. Load Change(Pulling)		Load+/-10%			+/-10	ppb	
Aging	Long Term Per Day (After 30 Days Operation)	For AT-Cut			+/-10	ppb	Optional
		For SC-Cut			+/-2		
	Long Term 1 st Year (After 30 Days Operation)	For AT-Cut		+/-300	+/-500	ppb	Optional
	For SC-Cut		+/-50	+/-200			
Phase Noise							
Consult Sale							
Environmental							
Packing	Palette						
Size	20.5x20.5x12mm max						
Weight	10g max						