Features and Benefits

VHF ultra-Low phase noise Sine wave output Frequency Tuning Input +7dBm min. output level

Description

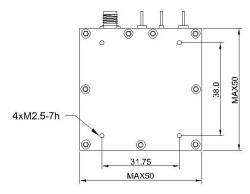
OCXO5052L series is VHF ultra-low phase noise OCXO in connectorized package.

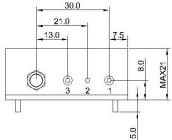
Typical Applications

Signal Analyzer Reference for internal synthesizers SATCOM Systems
Harsh Environment Applications

Mechanical Drawing & Pin Connections

Drawing No: MD140059-1

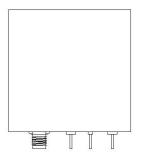


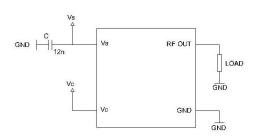


Pin Connections:

Pin#	Symbol	Function					
1	Vs	Supply Voltage					
2	GND	Ground					
3	Vc	Control Voltage(EFC)					
SMA	RF OUT	RF Output					

Unit: mm





Specifications

Frequency Range	OCXO Specification		Cum	Conditi	On all them	Value			11-2	.,	to.			
Standard Frequencies 100.000/120.000 MHz			Sym	Condition		Min.	Тур.	Max.	Unit	Note				
Sine wave	Frequency Range			F ₀			50		150	MHz				
Dutput Waveform							,	100.000/120.000		MHz				
Dutput Waveform														
Doubput Level								Sine wave						
Output Level				RL	+/-5%					Ohm				
Harmonics							+7			dBm	Other output level on request			
Power Supply Votage Vcc 11.400 12.000 12.6000 V Other supply voltag on request on request Current Consumption Warm-up 500 mA Warm-up Time@+25°C Δffinal/fo<+/-0.1ppm	Harmonics								-30	dBc				
Voltage Vcc 11.400 12.000 12.6000 V Other supply voltag on request Current Consumption Warm-up 500 mA Warm-up Time@+25°C ∆ffinal/flo<+/-0.1ppm	Spurious								-90	dBc				
Value Valu	Power Sup	ply												
Warm-up Time@+25°C				Vcc			11.400	12.000	12.6000	V	Other supply voltage on request			
Steady-state@#±25°C 300 mA	Current Consumption								mA					
Frequency Control* Frequency Adjust Range +/-1 +/-2 ppm Tuning Slope: Posit Control Voltage 0 5 10 V Internal Resistance 100 Kohm Frequency Stability Initial Tolerance @+25°C Vc=5V +/-300 ppb Vs. Operating Temperature Range -55°C to +85°C +/-50 ppb For more details, please contact ou sales. Vs. Supply Voltage Variation(pushing) Vs+/-5% +/-10 ppb Phase contact ou sales. Vs. Supply Voltage Variation(pushing) Rt+/-5% +/-10 ppb Ppb Long Term Per Day After 30days operation +/-1 +/-2 ppb Long Term Per Year After 30days operation +/-100 +/-200 ppb Phase Noise Offset 100MHz 120MHz 120MHz Unit 10Hz -90 -95 -97 -100 -105 -85 -90 -95 -97 -100 10Hz -155 -138 -160					Steady-state@+25°C				300	mA				
Frequency Adjust Range	Warm-up Time@+25°C				△ffinal/fo<+/-0.1ppm				5	min				
Frequency Adjust Range	Frequency	Control*		,										
Control Voltage			Э		1		+/-1	+/-2		mqq	Tuning Slope: Positive			
Internal Resistance									10		J = 1,F=1 : ==1,0.0			
Initial Tolerance @+25°C							100			Kohm				
Vs. Operating Temperature Range -55 °C to +85°C +/-50 ppb For more details, please contact ou sales. Vs. Supply Voltage Variation(pushing) Vs+/-5% +/-10 ppb Vs. Load Change RL+/-5% +/-5 ppb Long Term Per Day After 30days operation +/-1 +/-2 ppb Long Term Per Year After 30days operation +/-100 +/-200 ppb Phase Noise Offset A B C D E A B C D E 10Hz -90 -95 -97 -100 -105 -85 -90 -95 -97 -100 10Hz -125 -130 -132 -135 -137 -118 -122 -125 -127 -130 1KHz -155 -158 -160 -162 -164 -148 -150 -153 -155 -157 dBc/h 10KHz -165 -168 -170 -172 -174 -160 <td></td>														
Vs. Operating Temperature Range -55 °C to +85°C +/-50 ppb please contact ou sales. Vs. Supply Voltage Variation(pushing) Vs+/-5% +/-10 ppb Vs. Load Change RL+/-5% +/-15 ppb Long Term Per Day After 30days operation +/-1 +/-2 ppb Long Term Per Year After 30days operation +/-100 +/-200 ppb Phase Noise Offset A B C D B E A B C D E D E A B C D B E	Initial Tolera	ance @+25°	С		Vc=5\	/			+/-300	ppb				
Vs. Load Change	Vs. Operating Temperature Range				-55 °C to +85°C				+/-50	ppb	For more details, please contact our sales.			
Vs. Load Change	Vs. Supply \	Vs. Supply Voltage Variation(pushing)			Vs+/-5%				+/-10	ppb				
Long Term Per Day Operation H/-1 H/-2 Ppb														
After 30days operation	· ·							+/-1	+/-2	ppb				
Offset 100MHz 120MHz Unit A B C D E A B C D E 10Hz -90 -95 -97 -100 -105 -85 -90 -95 -97 -100 100Hz -125 -130 -132 -135 -137 -118 -122 -125 -127 -130 1KHz -155 -158 -160 -162 -164 -148 -150 -153 -155 -157 dBc/H 10KHz -165 -168 -170 -172 -174 -160 -165 -168 -170 -172 10KHz -175	Long Term Per Year				_			+/-100	+/-200	ppb				
Note	Phase Nois	se												
10Hz	Officet			100MHz								Linit		
100Hz	Offiset					Е		В			E	Unit		
1KHz -155 -158 -160 -162 -164 -148 -150 -153 -155 -157 dBc/h 10KHz -165 -168 -170 -172 -174 -160 -165 -168 -170 -172 100KHz -175 -														
10KHz -165 -168 -170 -172 -174 -160 -165 -168 -170 -172 100KHz -175 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
100KHz												dBc/Hz		
Environmental Operating Temperature Range -55°C to +85°C Storage Temperature Range -55°C to +125°C Size 50.0 x 50.0 x 21.0mm Max.														
Operating Temperature Range -55°C to +85°C Storage Temperature Range -55°C to +125°C Size 50.0 x 50.0 x 21.0mm Max.			-175	-175	-175	-175	-175	-175	-175	-175	-175			
Storage Temperature Range -55°C to +125°C Size 50.0 x 50.0 x 21.0mm Max.														
Size 50.0 x 50.0 x 21.0mm Max.														
		mperature R	ange											
Weight 60g Max.	Weight			60g M	60g Max.									