

OCXO5052L

VHF Ultra-Low Phase Noise OCXO

Features and Benefits

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

Description

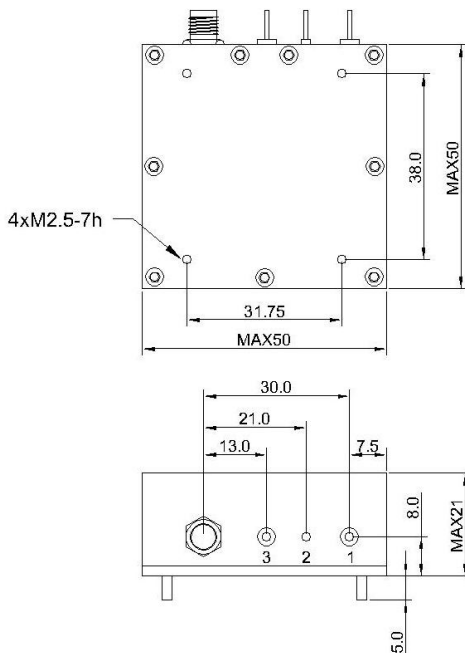
OCXO5052L series is VHF ultra-low phase noise OCXO in connectorized package.

Typical Applications

Signal Analyzer Reference for internal synthesizers
SATCOM Systems
Harsh Environment Applications

Mechanical Drawing & Pin Connections

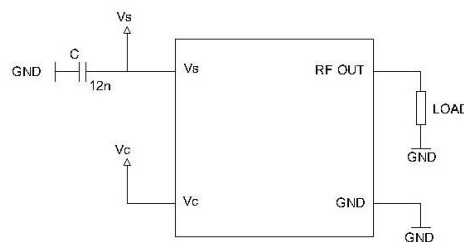
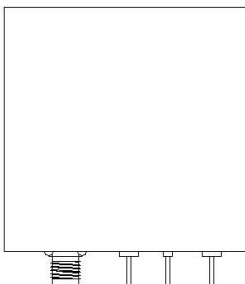
Drawing No: MD140059-1



Pin Connections:

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

Unit : mm



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Specifications

OCXO Specification	Sym	Condition	Value			Unit	Note				
			Min.	Typ.	Max.						
Frequency Range	F ₀		50		150	MHz					
Standard Frequencies			100.000/120.000			MHz					
RF Output											
Output Waveform			Sine wave								
Load	RL	+/-5%		50		Ohm					
Output Level			+7			dBm	Other output level on request				
Harmonics					-30	dBc					
Spurious					-90	dBc					
Power Supply											
Voltage	Vcc		11.400	12.000	12.6000	V	Other supply voltage on request				
Current Consumption		Warm-up			500	mA					
		Steady-state@+25°C			300	mA					
Warm-up Time@+25°C		△f _{final} /f ₀ <+/-0.1ppm			5	min					
Frequency Control*											
Frequency Adjust Range			+/-1	+/-2		ppm	Tuning Slope: Positive				
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 our 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	100MHz					120MHz					Unit
	A	B	C	D	E	A	B	C	D	E	
10Hz	-90	-95	-97	-100	-105	-85	-90	-95	-97	-100	dBc/Hz
100Hz	-125	-130	-132	-135	-137	-118	-122	-125	-127	-130	
1KHz	-155	-158	-160	-162	-164	-148	-150	-153	-155	-157	
10KHz	-165	-168	-170	-172	-174	-160	-165	-168	-170	-172	
100KHz	-175	-175	-175	-175	-175	-175	-175	-175	-175	-175	
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.									
Weight		60g Max.									