

**OCXO5051L**  
UHF Ultra-Low Phase Noise OCXO

**Features and Benefits**

- UHF ultra-Low phase noise
- Sine wave output
- Frequency Tuning Input
- +11dBm min. output level

**Description**

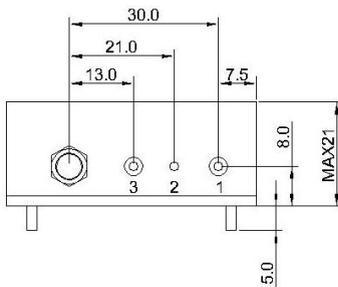
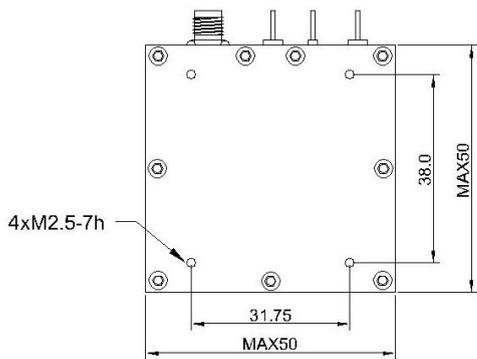
OCXO5051L series is UHF ultra-low phase noise OCXO in connectorized package.

**Typical Applications**

- Signal Analyzer Reference for internal synthesizers
- SATCOM Systems
- Harsh Environment Applications

**Mechanical Drawing & Pin Connections**

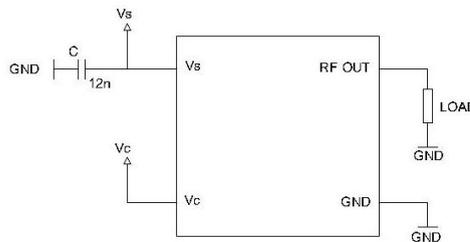
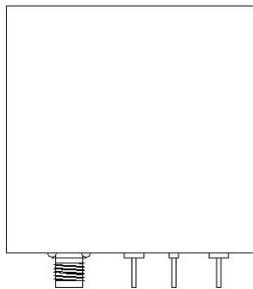
Drawing No: MD140059-1



Pin Connections:

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

Unit : mm



**OCXO5051L**

UHF Ultra-Low Phase Noise OCXO

**Specifications**

OCXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F <sub>0</sub>		300		1500	MHz	
Standard Frequencies			1000.000			MHz	
<b>RF Output</b>							
Output Waveform			Sine wave				
Load	RL	+/-5%		50		Ohm	
Output Level			+11	+13	+15	dBm	Other output level on request
Harmonics				-40	-35	dBc	
Spurious					-90	dBc	
Sub-harmonics				-45	-40	dBc	Depending on frequency multiplication factor may be lower or higher than 10.
<b>Power Supply</b>							
Voltage	Vcc		11.400	12.000	12.6000	V	Other supply voltage on request
Current Consumption		Warm-up			700	mA	
		Steady-state@+25°C			300	mA	
Warm-up Time@+25°C		$\Delta f_{final}/f_0 < +/-0.1 \text{ ppm}$			5	min	
<b>Frequency Control*</b>							
Frequency Adjust Range			+/-1	+/-2		ppm	Tuning Slope: Positive
Control Voltage			1	5	9	V	
Internal Resistance			100			Kohm	
<b>Frequency Stability</b>							
Initial Tolerance @+25°C		Vc=5V			+/-300	ppb	
Vs. Operating Temperature Range		-55 °C to +85°C			+/-100	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	
<b>Phase Noise</b>							
Phase Noise@1000MHz		100Hz		-115	-110	dBc/Hz	Please contact our sales for phase noise of other frequency
		1KHz		-143	-140		
		10KHz		-150	-145		
		100KHz			-150		
<b>Environmental</b>							
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.						