Features and Benefits

Ultra-Low phase noise Sine wave output Frequency Tuning Input +14dBm min. output level 50x50x19mm

Description

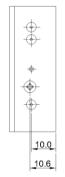
OCXO5151L series is ultra-low phase noise floor of -180dBc/Hz

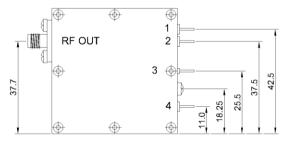
Typical Applications

Signal Analyzer Reference for internal synthesizers SATCOM Systems
Harsh Environment Applications

Mechanical Drawing & Pin Connections

Drawing No: MD140058-1



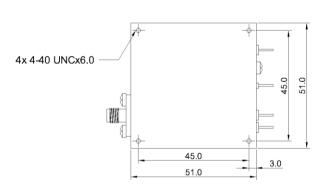


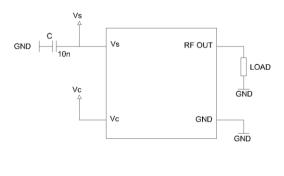


Pin Connection: Symbol Pin# Function Supply Voltage Vs 2 N.C No Connection 3 GND Ground Control Voltage(EFC) 4 Vc SMA RF OUT RF Output

Unit: mm







OCXO5151L

Ultra-Low Phase Noise OCXO

Specifications

ОСХО			Comm	Condition		Value			11	Note		
Specification		Sym	Min.			Тур.	Max.	Unit	NO	ote		
Frequency Range			F ₀			80		125	MHz			
Standard Frequencies						1	100.000/120.00	Ď	MHz			
RF Output										,		
Output Wav	eform					Sine wave						
Load			RL			50			Ohm			
Output Level				@Vc=5.0V		+14	+16		dBm			
Harmonics								-40	dBc			
Spurious								-110	dBc			
G-Sensitivity				Per axis				1.0	ppb/g			
Power Sup	ply							,				
Voltage			Vcc			11.400	12.000	12.6000	V	Other supply voltage on request		
Current Consumption				Warm-ı				475	mA			
				Steady-state(275	mA			
Warm-up Time@+25°C				∆ffinal/f0<+/-	0.2ppm			5	min			
Frequency												
Frequency Adjust Range						+/-1	+/-2		ppm	Tuning Slope: Positive		
Control Voltage						0	5	10	V			
Internal Resistance						100			Kohm			
Frequency								, 				
Initial Tolerance @+25°C				Vc=5V				+/-300	ppb			
Vs. Operating Temperature Range				-10 °C to +60°C Steady state				+/-200	ppb	Other stability and temperature range on request		
Vs. Supply Voltage Variation(Pushing))	Vs+/-5%			+/-20		ppb			
Long Term Per Day				After 30days operation				+/-2	ppb			
Long Term Per Year				After 30d operation				+/-200	ppb			
Phase Nois	е											
()ffcof			100MHz				120MHz				Unit	
	Α	В	С	D	Е	Α	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	1	
1KHz	-155	-158	-160	-162	-164	-148	-150	-153	-155	-157	dBc/Hz	
10KHz	-175	-176	-176	-176	-178	-160	-165	-168	-171	-175	4	
100KHz	-180	-180	-180	-180	-180	-180	-180	-180	-180	-180		
Environme		5	4000	1								
Operating T				-10°C to +60°C								
Storage Ter	nperature Ra	ange		-55°C to +125°C								
Size				51.0 x 51.0 x 19.0mm Max.								
Weight			85g M	85g Max.								