

HPXO5440L

UHF Ultra-Low Phase Noise HPXO

Features and Benefits

UHF ultra-Low phase noise
Sine wave output
+7dBm min. output level
54x40x19mm

Description

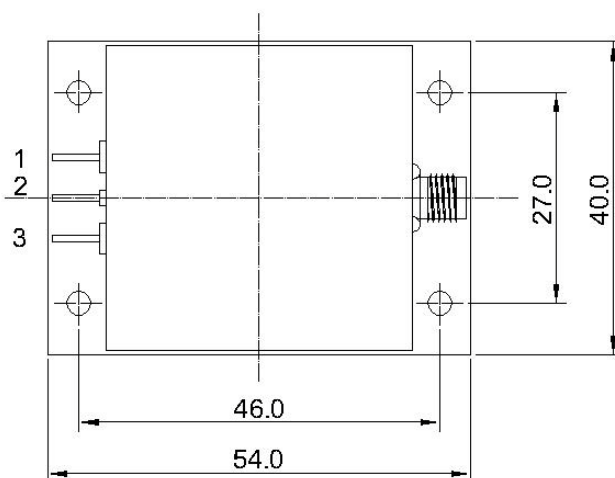
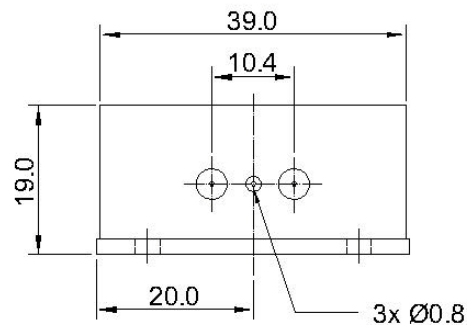
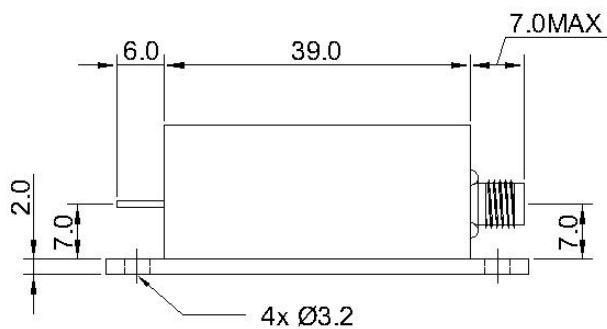
HPXO544Lseries is UHF ultra-low phase noise crystal oscillator.

Typical Applications

WLAN/WiMAX/WIFI
SONET/SDH/ATM
10 Gigabit Ethernet, Fiber Channel.

Mechanical Drawing & Pin Connections

Drawing No: MD140060-1



Pin Connections:

Pin#	Symbol	Function
1	N.C.	No Connection
2	GND	Ground
3	Vs	Supply Voltage
SMA	RF OUT	RF Output

Unit : mm

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Specifications

HPXO Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency Range	F ₀		300		1300	MHz	
Standard Frequencies			1000.000/1200.000			MHz	
RF Output							
Output Waveform			Sine wave				
Load	RL			50		Ohm	
Output Level			+7	+11		dBm	
Harmonics				-50	-40	dBc	
Spurious					-80	dBc	
Sub-harmonics				-45	-40	dBc	Depending on frequency multiplication factor may be lower or higher than 10.
Power Supply							
Voltage	Vcc		11.400	12.000	12.6000	V	Other supply voltage on request
Current Consumption		Steady-state@+25°C			60	mA	
Start-up Time				10	20	ms	
Frequency Control*							
Electronic Frequency Control				N/A			On request
Frequency Stability							
Initial Tolerance @+25°C					+/-5	ppm	
Vs. Operating Temperature Range		-20°C to +70°C			+/-50	ppm	Other stabilities on request
Vs. Supply Voltage Change		Vs+/-5%			+/-1	ppm	
Vs. Load Change		RL+/-5%			+/-1	ppm	
Long Term Per Day		@+25°C			+/-2	ppm	
Long Term Per Year		@+25°C, per year			+/-1	ppm	
Phase Noise							
Phase Noise@1000MHz		10KHz		-140	-135	dBc/Hz	
		100KHz		-145	-140		
		1MHz		-147	-145		
Environmental							
Operating Temperature Range	-20°C to +70°C						
Storage Temperature Range	-55°C to +125°C						
Size	54.0 x 40.0 x19.0mm Max.						
Weight	60g Max.						