

Data Sheet

VIAVI LC-XO Plus

Low-Cost Desktop GPSDO Module Kit



Module Specifications		
1 PPS Accuracy	±50 ns to UTC RMS (1-Sigma) GPS Locked	
Holdover Stability	<±50 μs over 3 Hour Period @+25°C (No Motion)	
1 PPS Output	3.3 VDC CMOS	
Serial Control	USB serial port with SCPI-99 commands, GPS NMEA Output	
GPS Frequency	L1, C/A 1574 MHz	
GPS Antenna	Active or Passive, 5 V supplied by unit	
GPS Receiver	50 Channels, Mobile, SBAS WAAS, EGNOS, MSAS capable	
Sensitivity		
Acquisition	-142 dBm	
Tracking	-158 dBm	
ADEV	10 Ks <5E-012 (GPS Locked, 25°C, no motion)	
TTL Alarm Output	GPS LOCK and Event indicator	
Warm Up Time/Stabilization Time	<5 min at +25°C to 1E-08 Accuracy	
Supply Voltage (Vdd)	5 V via USB connector, or 4 V to 5.25 V on optional header pins	
Power Consumption	<0.5 W	
Temperature		
Operating Temperature	-10°C to +65°C	
Storage Temperature	-45°C to +85°C	







Oscillator Specifications			
Additional Features	Firmware field-upgradable, status LED, compatible to GPSCon, SNTP, GPSD, and Z38xx software applications, NMEA output		
Frequency Output	10 MHz CMOS 5 Vpp		
10 MHz Retrace	±2E-08 After 1 Hour @ +25°C		
Frequency Stability Over Temperature (without GPS lock)	±75 parts per billion from 0°C to +60°C		
Output Amplitude	5 Vpp CMOS		
Warm Up Time	<1 min @ +25°C		
Phase Noise	Offset	Phase Noise	
	1 Hz	-65 dBc/Hz	
	10 Hz	-102 dBc/Hz	
	100 Hz	-132 dBc/Hz	
	1 kHz	-148 dBc/Hz	
	10 kHz	-152 dBc/Hz	
	100 kHz	<-155 dBc/Hz	

Connections

1 PPS Output, 10 MHz Output, power, USB, TTL alarm status, antenna input. MMCX, Mini-USB, and Screw-In header block

Supplied Accessories

GPS antenna, two MMCX cables, USB power supply, USB cable

NOTE: Specifications subject to change without notice.



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