

LC 1x1 Low Cost GPSD0 Single Oven Oscillator

Typical Electrical Specifications

Module Specifications		
1 PPS Accuracy	LVDS level, ±35 ns to UTC RMS (1-Sigma) GPS Locked	
Holdover Stability	<±15 µs over 24 hours @+25.0°C (No Motion or Airflow, 5+ days with GPS	
Serial Control	RS-232 level GPS NMEA output and SCPI control	
GPS Frequency	L1, C/A 1574 MHz	
GPS Antenna	Active or Passive	
GPS Receiver	50 Channels, Mobile, SBAS WAAS, EGNOS, MSAS capable	
Sensitivity		
Acquisition	-142 dBm	
Tracking	-158 dBm	
GPS TTFF		
Cold Start	<45 sec	
Warm Start	1 sec	
Hot Start	1 sec	
ADEV (GPS Locked, 25°C, no motion)		
1K s	<1E-010	
10K s	<8E-012	



Typical Electrical Specifications (continued)

TTL Alarm Output	GPS LOCK and Event indicator		
Warm Up Time/Stabilization Time	<9 min at +25°C to 5E-09 Accuracy no airflow		
Supply Voltage (Vdd)	12 V ±5%, <0.21 A steady state		
Power Consumption	<2.4 W steady state, <8 W warmup		
Temperature			
Operating Temperature	-40°C to +85°C		
Storage Temperature	-45°C to +85°C		
Output Signal Levels	10 MHz LVDS, 1 PPS LVDS, CMOS option		
Oscillator Specification			
Frequency Output	10 MHz CMOS/LVDS		
10 MHz Retrace	±2E-08 After 1 hour @ +25°C (no GPS)		
Frequency Stability over Temperature, and over 24 hours	<±5E-09 (no GPS), <1E-012 over 24 hours (with GPS, no airflow)		
Output Amplitude	LVDS, or CMOS option		
OCXO Warm Up Time	<3 min @ +25°C		
Phase Noise	1 Hz	-90 dBc/Hz	
	10 Hz	-120 dBc/Hz	
	100 Hz	-140 dBc/Hz	
	1 kHz	-150 dBc/Hz	
	10 kHz	-155 dBc/Hz	
	100 kHz	<-155 dBc/Hz	

NOTE: Specifications subject to change without notice.



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