ATL-GPS-1 – 10MHz Atlas GPSDO
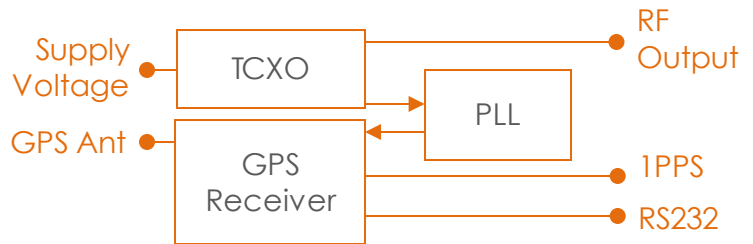
bliley technologies

GPS Disciplined OCXO

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Description

The Atlas GPS-1 is a fully integrated GPS disciplined oscillator based on a 10MHz TCXO. The ATL-GPS-1 has a 10MHz RF output and a 1PPS output for timing distribution.

The ATL-GPS-1 is the perfect addition for any timing lab where 1PPS signal is required.

Block Diagram

ATL-GPS-1

Product Family
Atlas

Receiver Type
GPS

Configuration
Package 1

Specifications

Parameter	Conditions	Values			Unit
Electrical		MIN	TYP	MAX	
Input Voltage	AC/DC Adaptor Included		12		V
Power Consumption			5		W
GPS Antenna Voltage			3.3		V
1PPS Output (square wave)	Rising edge synchronized to UTC Time BNC Connector		3.3		Vpp
10MHz Output (sine wave)	BNC Connector	4	6	8	dBm
RS232 Output	GPS NMEA Signal		9600		BPS
Accuracy	P-P @ 10MHz		0.03		Hz
PWR LED	On: unit powered; GPS locked Flash: unit powered; GPS unlocked Off: unit unpowered				
ALM LED	On: Freq deviation > 0.1Hz Off: Freq deviation < 0.1Hz				
Environmental & Reliability		X	Y	Z	Unit
Package Size	Including BNC	5.43	0.98	2.56	Inches
		138	25	65	mm

PIN	FUNCTION
1	RF Output
2	1PPS Output
3	1PPS Input
4	RS232
5	Supply Voltage

Tolerances (mm) .X = ± 0.5, .XX = ±0.2 unless otherwise specified

Notes:
- None