

GPS Disciplined OCXO Time & Frequency Reference

- Accurate to 25ns RMS UTC
- -100dBc/Hz @ 1Hz offset phase noise
- No Drift
- Internationally Traceable Standard



- The E8-Y provides low noise, traceable, calibration free time & frequency reference. These time & frequency standards maintain high time & frequency accuracy required for demanding applications. The E8-Y may be considered as a primary reference clock.

Features

- 1×10^{-12} accuracy
- 10MHz output
- 1PPS output
- RS232 NMEA output
- Excellent holdover performance

Benefits

- No calibration required
- GPS receiver provides high accuracy UTC time & frequency reference
- GPS traceable reference

Applications

- Wired & wireless network synchronization
- Production test frequency reference
- Time and frequency standard for calibration & RF laboratories
- Frequency standard for counters, signal generators, spectrum & network analysers
- Time & frequency reference for satellite communications ground stations CDMA, LTE, DTV & DAB

Specification	E8-Y
Type	OCXO Desktop
Output	
Frequency	10MHz
Level	12dBm ±2dBm 50ohms
Number	1
Connector	BNC
Frequency Accuracy	1.00E-12
Frequency Stability	
1s	2.00E-12
10s	5.00E-12
100s	2.00E-12
1 Hour	6.00E-12
Phase Noise dBc/Hz in 1Hz BW	
1Hz	-100dBc/Hz
10Hz	-130dBc/Hz
100Hz	-145dBc/Hz
1kHz	-150dBc/Hz
10KHz	-155dBc/Hz
Harmonics	<-30dBc
Spurious	<-80dBc
Start Up (Warm) Time	<25 Minutes
1PPS	
Accuracy	<±12ns
Holdover	<±50ns
Level	3.3VCMOS
Number	1
Connector	BNC
Power Supply	
AC	90 - 240Vac
DC	12 - 18Vdc
Power Consumption @ 25°C	
Warm Up	11W
Stabilized	5W
Temperature	
Operating	-20°C to +50°C
Storage	-40°C to +70°C
Humidity	90% (Non Condensing)
GPS Antenna	
Gain	28dB @ 3.3V
Noise Figure	0.8dB
Voltage	2.7-5 Vdc
Connector	BNC
Mounting	Magnetic
Cable	5m
Mechanical	
Colour	Black
Dimension	165 x 105 x 35mm
Dimension Packed	270 x 160 x 85mm
Weight	1kg