

10 MHz GPS LOCKED FREQUENCY STANDARD

- **HIGH FREQUENCY ACCURACY**
- **VERY LOW PHASE NOISE**
- **LOW POWER CONSUMPTION**
- **SHORT WARM UP TIME**
- **1 GHz AUXILIARY FREQUENCY OUTPUT**

This GPS frequency standard is intended for use in applications require very high frequency accuracy, stability and precise timing. Is is especially advantageous in terrestrial and satellite communications, calibration and system test applications. It has a very low phase noise 1GHz auxiliary RF output, allowing the user to make complex microwave measurements on a simple and easy way with one frequency source.

Electrical characteristics:

Output Frequency	10 MHz	
Output Level	1,3 V _{eff} / 50 ohm (15 dBm)	
Phase Noise	10 MHz	1000 MHz
@ 1Hz	-105 dBc/Hz @ 1 Hz	-65 dBc/Hz @ 1 Hz
@ 10Hz	-130 dBc/Hz @ 10 Hz	-75 dBc/Hz @ 10 Hz
@ 100Hz	-145 dBc/Hz @ 100 Hz	-90 dBc/Hz @ 100 Hz
@ 1KHz	-150 dBc/Hz @ 1 kHz	-115 dBc/Hz @ 1 kHz
@ 10 KHz	-155 dBc/Hz @ 10 kHz	-125 dBc/Hz @ 10 kHz
@ 100 KHz	-155 dBc/Hz @ 10 kHz	-125 dBc/Hz @ 100 kHz
@ 1MHz	-155 dBc/Hz @ 10 kHz	-135 dBc/Hz @ 1 MHz
Spurious:	< -80 dB	
Harmonics:	< -70 dB	
Frequency Accuracy:	+/-2E-11, more then 1 hours average	
Short Term Stability:	< 2x10E-12 τ=1 sec, typical	
Warm Up Time:	< 15 min.	
Operating Temp. Range:	-20 to +70 °C	
Storage Temperature:	-40 to +85 °C	
Power Supply:	+15 V / 1,7 A Warm Up, / 0,7 A Quiescent (25 °C) or 220V AC	
Status Monitor:	Synchron Circuit Phase Error	
	LOCK State, Number of GPS Satellites Received, OVEN State	
Options:	Low phase noise 1000 MHz output	
	Synthesized RF from 1 mHz to 1000 MHz	

Outline dimensions (mm):

