BONN HUNGARY ELECTRONICS

10 MHz GPS FREQUENCY STANDARD

BURL10
NDS # 940

an ISO 9001 Certified Company

TÜV Rheinland EUROQUA EN ISO 9001 ZN 75.100.8292

- **HIGH FREQUENCY ACCURACY**
- **VERY LOW PHASE NOISE**
- **LOW POWER CONSUMPTION**
- **SHORT WARM UP TIME**
- **1 GHz 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 RF output, allowing the user to make complex microwave measurements on a simple and easy way with one frequency source.

Technical Specifications:

Output Frequency: 10 MHz
Output Level: 1,3Veff / 50 ohm (15 dBm)

Phase Noise	10 MHz	1 GHz
@ 1Hz	-105dBc/Hz@1Hz	-65dBc/Hz@1Hz
@ 10Hz	-130dBc/Hz@10Hz	-75dBc/Hz@10Hz
@ 100Hz	-145dBc/Hz@100Hz	-90dBc/Hz@100Hz
@ 1KHz	-150dBc/Hz@1kHz	-115dBc/Hz@1kHz
@ 10 KHz	-155dBc/Hz@10kHz	-125dBc/Hz@10kHz
@ 100 KHz	-155dBc/Hz@10kHz	-125dBc/Hz@100kHz
@ 1MHz	-155dBc/Hz@10kHz	-135dBc/Hz@1MHz

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 ^{o}C
Storage Temperature: -40 to +85 ^{o}C
Power Supply: +15 V / 1,7A Warm Up, / 0,7A Quiescent (25^{o}C)
or 220V AC
Status Monitor: Synchron Circuit Phase Error
LOCK State
Number of GPS Satellites Received
Options: Low phase noise 100MHz output
Synthesized RF from 1mHz to 10 MHz

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