JOINT STOCK COMPANY RUKNAR

Rubidium time and frequency standard CH1-1011

Rubidium time and frequency standard CH1-1011 is intended for use as a high stable source of signals with frequencies of 1, 5 and 10 MHz in various frequency & time measuring systems. It features high frequency stability and spectral purity of the output signals. GPS/GLONASS disciplined rubidium standard. Synchronized by GPS/GLONASS or external time scale 1pps output. All-digital

Specification

1. Output frequency, MHz..... 1, 5, 10
2. Output signals amplitude at a load of 50 Ω, Vrms, at range.....1.0 ± 0.2
3. Accuracy at shipment, at range..... ± $2 \cdot 10^{-11}$
4. Aging (after 72 hrs), at range..... ± $2 \cdot 10^{-11}$/month
   at range..... ± $2.4 \cdot 10^{-10}$/year
5. Relative error of frequency for 1 day
   when operating in the automatic frequency adjustment, at range..... ± $5 \cdot 10^{-12}$
6. Frequency retrace (after 24 hrs on)..... < $2 \cdot 10^{-11}$
7. Short-term stability (Allan variance)
   1 s..... < $1.4 \cdot 10^{-11}$
   10 s..... < $5 \cdot 10^{-12}$
   100 s..... < $2 \cdot 10^{-12}$
   1 day..... < $5 \cdot 10^{-12}$
8. Temperature shift (0 to + 40 0C), at range..... ± $1 \cdot 10^{-10}$
9. The tuning range of the output frequency (digital with step $1 \cdot 10^{-12}$)..... ± $1 \cdot 10^{-9}$
10. Harmonics, dBc..... < - 30
11. Phase noise, dBc/Hz
    offset 85 Hz..... < - 130
    1 kHz..... < - 140
    10 kHz..... < - 145
12. Synchronization accuracy by external 1 pps signal, μs, at range..... ± 0.1
13. AC / DC power supply voltage, V..... 198 to 242 / 22 to 30
14. Input power, W..... < 60
15. Dimensions (depth×width×height), mm..... 310×255×170
16. Weight, Kg..... < 6.5

made in RUSSIA