JOINT STOCK COMPANY RUKNAR

Rubidium frequency standard CH1-1013

Rubidium Frequency Standard CH1-1013 is intended for use as a high stable signal source in measuring frequency and time equipment, in navigation systems, telephone and radio, in telecommunication networks.
Small size, weight, power consumption, time-to operating mode allows wide use in various mobile systems and complexes.

Specification

1. Output signal frequency..... 10 MHz sine
2. Output signal amplitude at a load of 50 Ω, Vrms, sine, at range.....0.8 to 1.2
3. Accuracy at shipment, at range..... $\pm 2 \cdot 10^{-11}$
4. Aging (after 72 hrs), at range..... $\pm 1 \cdot 10^{-11}$/month
   at range..... $\pm 1.2 \cdot 10^{-10}$/year
5. Frequency retrace (after 24 hrs on)..... $< 2 \cdot 10^{-11}$
6. 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 ..... $< 5 \cdot 10^{-12}$
7. Temperature shift (0 to +50 ^{0}C *), at range..... $\pm 2 \cdot 10^{-10}$
   (*) - the upper limit of temperature range is measured on the base plate of device and should not exceed specified values.
8. The tuning range of the output frequency (analog)..... $> 3 \cdot 10^{-9}$
9. Harmonics, dBc..... < - 30
10. Phase noise, dBc/Hz offset 85 Hz..... < - 130
    1 kHz..... < - 140
    10 kHz..... < - 145
11. Warm-up time to $< 1 \cdot 10^{-9}$, min (@ 25 ^{0}C, 24V)..... 15
12. Supply voltage, V..... 22 to 28
13. Input power (steady state @ 25 ^{0}C) , W..... < 18
14. Dimensions (depth×width×height), mm.....158×78×87
15. Weight, Kg..... < 1.2

made in RUSSIA