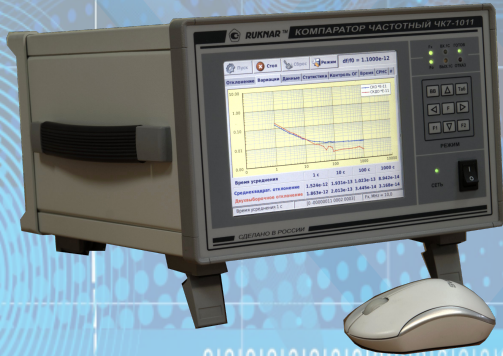


Frequency comparator CHK7-1011



CHK7-1011 is intended for use as a highly stable source of signals in various frequency & time measuring systems and at the same time as a precise instrument for measurements of the relative frequency difference of precision crystal oscillators and rubidium frequency standards. It features high frequency stability and spectral purity of the output signal. GPS/GLONASS disciplined rubidium standard. Synchronized by GPS/GLONASS or external time scale 1pps output with a time interval measuring function. All-digital frequency control and parameters monitoring. The measurement results and the status of the device parameters are displayed on the built-in TFT display.

Specification

1. The nominal value of the reference signal frequency, MHz..... 5, 10
2. The nominal value of the test signal frequency, MHz.....1; 2.048; 5; 10; 10.24
3. The maximum deviation of the frequency of the input signals from the nominal value, Hz, at range..... ± 1
4. Input signals amplitude @ 50 Ω , Vrms, at range..... от 0.4 to 1.2
5. RMS error in determining the relative frequency deviation for the averaging time
 - 1 s..... $< 2 \cdot 10^{-12}$
 - 10 s..... $< 5 \cdot 10^{-13}$
6. Output frequency, MHz..... 1, 5, 10
7. Output signals amplitude at a load of 50 Ω , Vrms, at range..... 1.0 ± 0.2
8. Accuracy at shipment, at range..... $\pm 2 \cdot 10^{-11}$
9. Aging (after 72 hrs), at range..... $\pm 2 \cdot 10^{-11}$ /month
at range..... $\pm 2.4 \cdot 10^{-10}$ /year
10. Relative error of frequency for 1 day when operating insync mode, at range..... $\pm 5 \cdot 10^{-12}$
11. Frequency retrace (after 24 hrs on)..... $< 2 \cdot 10^{-11}$
12. 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..... $< 5 \cdot 10^{-12}$
13. The tuning range of the output frequency (digital with step $1 \cdot 10^{-12}$)..... $\pm 1 \cdot 10^{-9}$
14. Synchronization accuracy by external 1 pps signal, μ s, at range..... $\pm 0,1$
15. AC / DC power supply voltage, V..... 198 to 242 / 22 to 30
16. Input power, W..... < 60
17. Dimensions (depth×width×height), mm..... 310×255×170
18. Weight, Kg < 7.0

made in RUSSIA