



Rubidium frequency standard CH1-1014



Rubidium Frequency Standard CH1-1014 for use as a highly stable signal source in an apparatus measuring frequency and time, in navigation systems, telephone and radio in telecommunication networks.

The device has a built-in frequency of 1 Hz pulse signal from the outside of the timeline or on the receiver GLONASS/GPS and tunable frequency synthesizer with the ability to adjust the frequency of the RS-232.

Specification

1. Output frequency, MHz.....	10
2. Output signal amplitude at a load of 50 Ω, V _{rms} , at range.....	1,0 ± 0,2
3. Accuracy at shipment, at range.....	± 2·10 ⁻¹¹
4. Aging (after 72 hrs), at range.....	± 2·10 ⁻¹¹ /month
at range.....	± 2,4·10 ⁻¹⁰ /year
5. Relative error of frequency for 1 day when operating in the automatic frequency adjustment, at range.....	± 5·10 ⁻¹²
6. Frequency retrace (after 24 hrs on).....	< 2·10 ⁻¹¹
7. Short-term stability (Allan variance)	1 s..... < 1,4·10 ⁻¹¹
	10 s..... < 5·10 ⁻¹²
	100 s..... < 2·10 ⁻¹²
	1 day..... < 5·10 ⁻¹²
8. Temperature shift (0 to +50 °C).....	< 2·10 ⁻¹⁰
9. The tuning range of the output frequency (digital with step 1·10 ⁻¹²).....	2·10 ⁻⁹
10. Harmonics, dBc.....	< - 30
11. Phase noise, dBc/Hz	offset (85±3) Hz..... < - 130
	1 kHz..... < - 140
	10 kHz..... < - 145
12. Synchronization accuracy by external 1 pps signal, μs, at range.....	± 0,1
13. Supply voltage, V.....	22 to 28
14. Input power, W.....	< 18
15. Dimensions (depth×width×height), mm.....	158×78×87
16. Weight, Kg.....	< 1,2