Fiber Optic Frequency Transfer Modem VCH-607

vremya-ch.com/index.php/en/products-en/signgen-en/vch-607-en/index.html

The VCH-607 fiber-optic modem of reference signals is designed for receiving and transmitting electrical signals with nominal frequency 100 MHz through a fiber-optic system and generating electrical signals with nominal frequencies 5 and 10 MHz, coherent with the input signal. Reception/transmission of high precision signals via the fiber optic communication line (FOCL) is provided using a pair of modems: one is configured as a Transmitter and installed at the end of the FOCL where the signal source is located, the second – as a Receiver and installed at the opposite end of the FOCL.

Key applications:
− metrology;
− time scale comparison systems;
− production and testing of high precision oscillators and devices based on them;
− scientific research.

Specifications

Input electrical signals:
– sinusoidal: 100 MHz, root mean square (RMS) voltage value — (1 ± 0.2) V at a load of 50 ohms;
Output electrical signals:
– sinusoidal: 5 MHz, 10 MHz, 100 MHz, RMS voltage value — (1 ± 0.2) V at a load of 50 Ω;

Metrological characteristics

Averaging time, τ	Allan deviation noise floor
1 s	$1.0 \cdot 10^{-13}$
10 s	$2.0 \cdot 10^{-14}$
100 s	$5.0 \cdot 10^{-15}$
1 hour	$7.0 \cdot 10^{-16}$

Dimensions (H×W×D) – 140×236×326 mm.