YS2000
Signal Generator

- Maximum frequency range up to 20GHz
- Typical phase noise ⩽ -125dBc at 10GHz with a frequency offset of 20kHz
- Supports a wide dynamic power adjustment output range of 130dB
- Supports various analog modulation modes including AM/FM/ΦM
- Supports pulse modulation with a high ON/OFF ratio of up to 70dB; allows external input of pulse sequences
- Provides internal modulation sources: sine wave, square wave, triangular wave
- Features USB/LAN remote control interfaces with a standard SCPI command set provided

BEIJING YUEXIANG TECHNLOGY CO.,LTD

YS2000 Signal Generator

Product Overview:

Frequency range from 9kHz to 3GHz, 6GHz, 7.5GHz, 12.75GHz, 20GHz, 31.8GHz, 40GHz, 44GHz, 56GHz, or 67GHz. Optionally available with a built-in fading simulator with a maximum bandwidth of 800MHz, it can easily generate suitable test signals for the development and validation of various devices under test, including components, modules, and complete base stations.

Technical Standards

1.Frequency Range: 9kHz to 20GHz
2.Output Power: 20 dBm
3.Phase Noise: ⩽-125dBc at 10GHz with a frequency offset of 20kHz
4.Level Accuracy: 0.8dB (3GHz < f ⩽ 20GHz), 0.5dB (8MHz < f ⩽ 3GHz)
5.Phase Noise at 20kHz frequency offset: ⩽-130dBc at 1GHz, ⩽-125dBc at 10GHz
6.Broadband Noise: < -130dBc at 10GHz frequency and 40MHz frequency offset
7.Harmonic Noise: ⩽-55dbc within the range of 10MHz to 20GHz
8.Non-Harmonic Noise: ⩽-68dbc within the range of 12GHz to 20GHz
9.Advanced graphical user interface equipped with a touch display screen and color graphics operation functionality
10.Electromagnetic Compatibility Requirements: The entire system must possess electromagnetic compatibility designs such as shielding, grounding, and isolation
11.Safety Requirements
a). Equipment failures should not cause damage to other devices
b). The system design should avoid risks arising from human errors during maintenance or usage
c). Fully consider the safety of the equipment and take compensatory measures to avoid dangers caused by misoperation
12.Capable of remote control using SCPI commands
13.The RF signal generator is a desktop device equipped with a cabinet installation handle
14.Operating Environment Requirements
a). Indoor ambient temperature: 0~+45℃
b). Relative humidity: 10%~90%
c). Power supply requirements: 220V±20%

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Application Range

The YS2000 signal generator is positioned as a multifunctional and cost-effective instrument with a frequency range up to 20GHz. It boasts various commonly used analog modulation functions (AM/FM/ΦM), pulse modulation capabilities, low-frequency output capabilities, and frequency scanning functions. These features make the signal generator a flexible and versatile tool suitable for teaching and research, product development, production, and maintenance, meeting various application needs in different scenarios. The rich logic hardware interfaces, widescreen LCD display, standard 2U height chassis, comprehensive standard SCPI command set, and general multi-communication mode bring great convenience for remote control and secondary integration development.

- Communication system testing
- Electronic device research, development, and testing
- Audio and video equipment testing
- Radar system testing
- Education and academic research
- Medical equipment testing
- Industrial control
- Automated testing systems