

# YSG SERIES

## Portable RF Signal Generators

### Introduction

The YSG Series of portable RF signal generators delivers exceptional performance across a frequency range of 200 MHz to 40 GHz. Featuring high signal purity, low phase noise, and fast switching speeds, the YSG Series provides the stable and reliable signals required for demanding applications in R&D, manufacturing, and field testing.

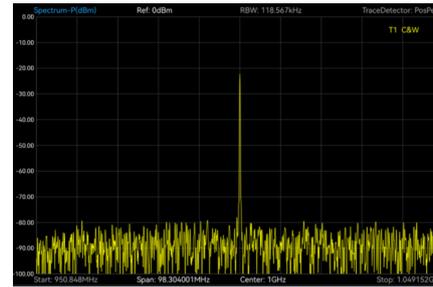


### Highlights

- Stabilized Oven-controlled crystal oscillator (OCXO)
- Frequency coverage up to 40 GHz
- Supports Frequency Sweep and Power Sweep functions.
- Modulation capabilities such as pulse modulation, AM, FM
- Compact design, ideal for field portability
- Wide 50 dB dynamic power range
- Switching Speed <200us
- Low Phase Noise option available
- Weighting under 3Kg

# Key Application Scenarios

- Field Maintenance & Troubleshooting**  
 Ideal for on-site engineers who need to perform rapid "Go/No-Go" tests without carrying heavy benchtop equipment.
- Antenna Alignment & Path Loss Measurement**  
 A cost-effective solution for outdoor installation teams.
- Receiver Blocking/Interference Testing**  
 Diagnose receiver performance issues on the fly.
- On-site Bode Plot (Scalar)**  
 Features 10 MHz Reference In/Out for precise frequency synchronization with Spectrum Analyzers. Enables accurate Gain/Loss characterization of amplifiers and filters in field environments.



# Key Specifications

Parameter	Specification
Frequency Range	200 MHz to 20 GHz (YSG-P200) 200 MHz to 40 GHz (YSG-P400)
Frequency Resolution	0.1 Hz (< 20 GHz) 0.2 Hz (20 GHz to 40 GHz)
Switching Speed	< 200 us
Frequency Stability	+/- 0.3ppm
Frequency Accuracy	+/- 0.3ppm
Output Power Range	-40 dBm to +10 dBm
Resolution	0.1 dB
Level Accuracy	+/- 0.5dB (0 dBm to +10 dBm) +/- 2dB (-40 dBm to 0 dBm)
Harmonics	-20dBc (Typ.)
Non-Harmonic Spurious	200 MHz to 20 GHz: -70 dBc (Typ.) / -65 dBc (Max) 20 GHz to 40 GHz: -65 dBc (Typ.) / -60 dBc (Max)
Pulse Width	10 ns~10 ms
Rise/Fall Time	<30 ns/50 ns
On/Off Ratio	>60dBc

YSG - P200 / YSG - P400 (Standard)					
Offset	1 GHz	5 GHz	10 GHz	20 GHz	40 GHz
100 Hz	-105	-91	-85	-79	-73
1 kHz	-125	-113	-107	-101	-95
10 kHz	-135	-122	-116	-110	-104
100 kHz	-135	-122	-116	-110	-104
1 MHz	-135	-125	-116	-110	-104