

Features

- ◆Wide frequency range: 10MHz~20GHz
- ◆Support external or internal fast frequency sweep (without ALC): 50000 points in 1ms
- ◆Support external or internal narrow pulse modulation : 20ns pulse width
- ◆Ultra low frequency resolution : 1 μ Hz
- ◆Auto Level Control (ALC) with closed loop
- ◆High reliability and easy to use
- ◆Output power up to +17dBm@10GHz
- ◆Excellent phase noises performance
- ◆Manual or software control via Ethernet or GPIB
- ◆Battery power supply is optional
- ◆Low harmonics
- ◆5" color LED display

**Applications**

- ◆R&D laboratories
- ◆Field testing
- ◆Service installation
- ◆Auto test system
- ◆Local oscillator
- ◆Test and measurement

Absolute Maximum Ratings

Parameter	Symbol	Condition	Min.	Max.	Unit
Operating Temperature	Top	Ambient Temperature	0	+55	°C
Storage Temperature	Tstg	Ambient Temperature	-20	+70	°C
AC Operating Voltage	Vop		100	240	V
Reverse Power	Pr	Reverse input power without damage		20	dBm

Typical Specification (@25°C)

Frequency Range	10MHz~20 GHz				Remark
Frequency Resolution	1 μ Hz*				
Frequency Accuracy	± 0.5 ppm				
Frequency Stability	<0.1 ppm				
Frequency Aging	<1ppm				
Frequency Switch Time (without ALC)	20 ns				
Frequency Switch Time (with ALC)	5 ms				
Output Power	-100dBm ~ +5dBm@10MHz ~ 30MHz -100dBm ~ +10dBm@30MHz ~ 50MHz -100dBm ~ +17dBm@50MHz ~ 9GHz -100dBm ~ +10dBm@9GHz ~ 15GHz -100dBm ~ +5dBm@15GHz ~ 17GHz -100dBm ~ 0dBm@17GHz ~ 20GHz				
	-40dBm ~ +10dBm@10MHz ~ 30MHz -40dBm ~ +15dBm@30MHz ~ 50MHz -40dBm ~ +20dBm@50MHz ~ 9GHz -40dBm ~ +15dBm@9GHz ~ 15GHz -40dBm ~ +10dBm@15GHz ~ 17GHz -40dBm ~ +5dBm@17GHz ~ 20GHz				Option2
Power Resolution	0.1dB				
Pulse Modulation	rise/fall time : ≤ 10 ns pulse width : ≥ 20 ns on/off ratio : > 80 dB@6GHz				
Phase Noise		100MHz	10GHz	20GHz	
	dBc/Hz @100Hz	-105	-68	-65	
	dBc/Hz @1kHz	-112	-88	-81	
	dBc/Hz @10kHz	-116	-89	-84	
	dBc/Hz @100kHz	-121	-88	-82	
	dBc/Hz @1MHz	-127	-108	-102	
Spurious					
	<-35dBc@harmonics				
	<-65dBc@non-harmonics,<10 GHz				
Impedance	50 Ω				
	100~240VAC @50~ 60Hz				
Power Consumption	40W				
Battery Operation	4 Hours				Option1
Operating Temperature	0°C~55°C				
	0°C~40°C				Option1
Storage Temperature	-20°C~70°C				

*It was measured indirectly.

Typical Phase Noise Performance (@25°C)

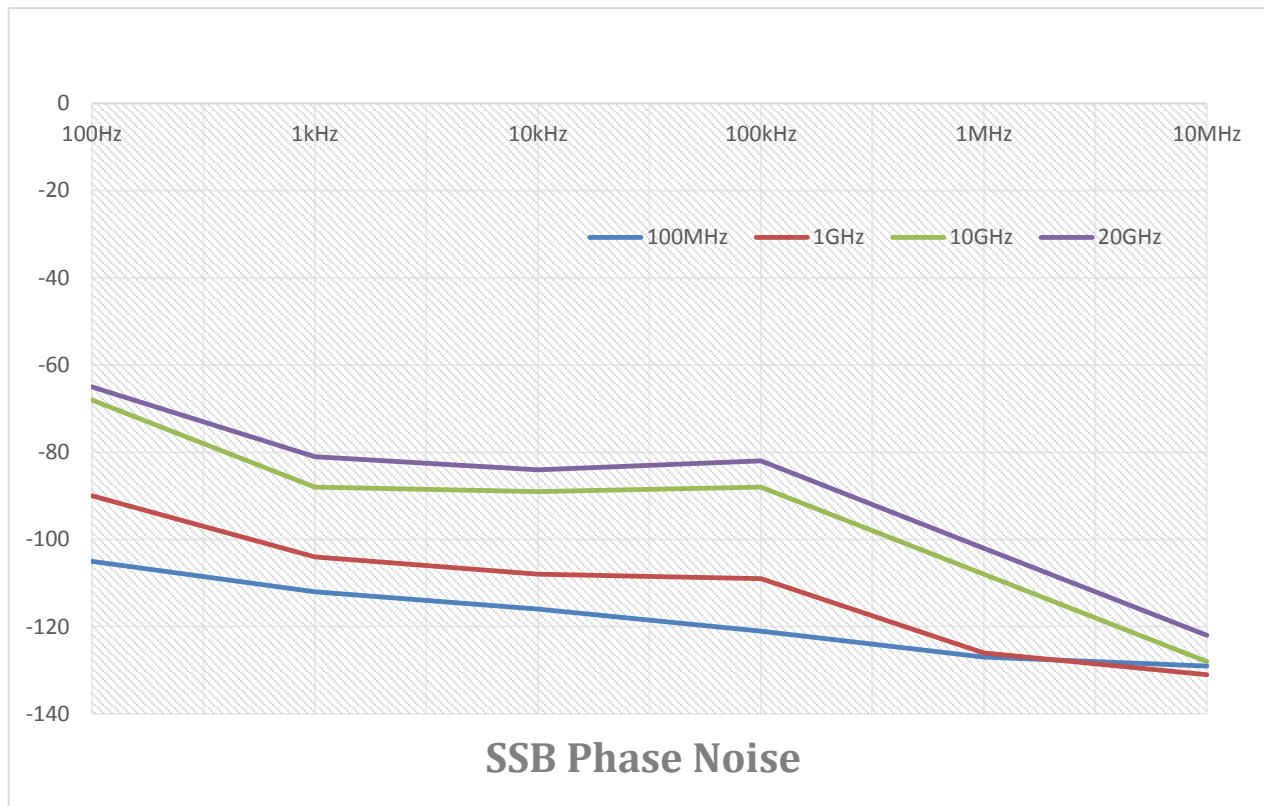
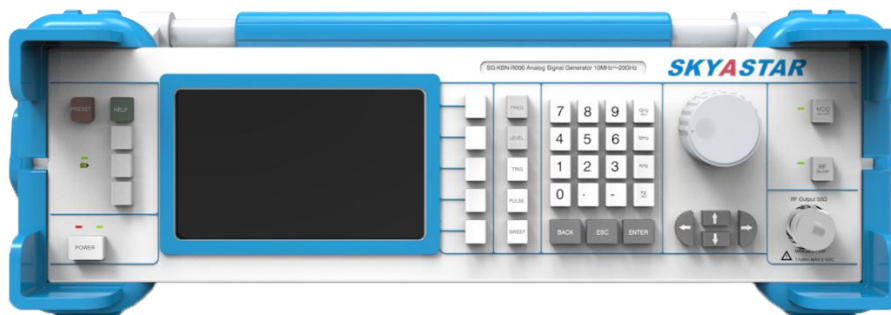


Fig.1 SSB Phase Noise

Interface



Front Panel



Rear Panel

Connector

Type	Connector
RF Output	SMA female (50Ω)
10MHz IN/10MHz OUT	BNC (50Ω)
PULSE IN/PULSE OUT	BNC (50Ω)
TRIG IN	BNC
LAN	RJ-45
GPIB	IEEE-488

Ordering Information

Option	Description
Option1	With battery, operating temperature 0 to 40°C
Option2	Low power range, but high output power

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