

RF Signal Generator

Three Independent Outputs/0.2-18GHz/-30~+20dBm Model: TLSG-0R218-20-3E

TLSG-0R218-20-3E delivers high-quality signals, precise signal levels, and a broad output power range with a max power of up to 20 dBm. Equipped with a touchscreen interface, it is well-suited to address the demanding testing requirements of communication, radar, and related fields.

Features:

- Output Frequency : 0.2~18GHz.
- Output Power: -30~+20dBm.
- Switching time: 20ms Max.
- Continuous Wave.

Applications:

- Communication/Radar Systems
- Test Labs

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Output Frequency	0.2		18	GHz
Frequency Step	0.1			Hz
Frequency Hopping Time			20	ms
Output Power	-30		+20	dBm
Power Step	0.5			dB
Output Spurious		-65	-60	dBc
Output Harmonics		-15	-10	dBc
Reference Mode	Adaptive Internal and External Reference			
External Reference Input Frequency	10			MHz
External Reference Input Power	2	5	8	dBm
Internal Reference Output Frequency	100			MHz
Internal Reference Output Power		10		dBm
Power Supply (AC)	85	220	264	V

Electrical Characteristics:

Parameter		Min	Typ	Max	Units
Phase Noise (1GHz)	@100Hz		-100		dBc/Hz
	@1KHz		-120		
	@10KHz		-130		
	@100KHz		-130		
	@1MHz		-130		
Phase Noise (5GHz)	@100Hz		-85		
	@1KHz		-105		
	@10KHz		-115		
	@100KHz		-115		
	@1MHz		-115		
Phase Noise (10GHz)	@100Hz		-80		
	@1KHz		-100		
	@10KHz		-110		
	@100KHz		-110		
	@1MHz		-110		
Phase Noise (18GHz)	@100Hz		-75		
	@1KHz		-95		
	@10KHz		-105		
	@100KHz		-105		
	@1MHz		-105		

Mechanical Specifications:

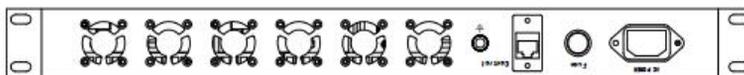
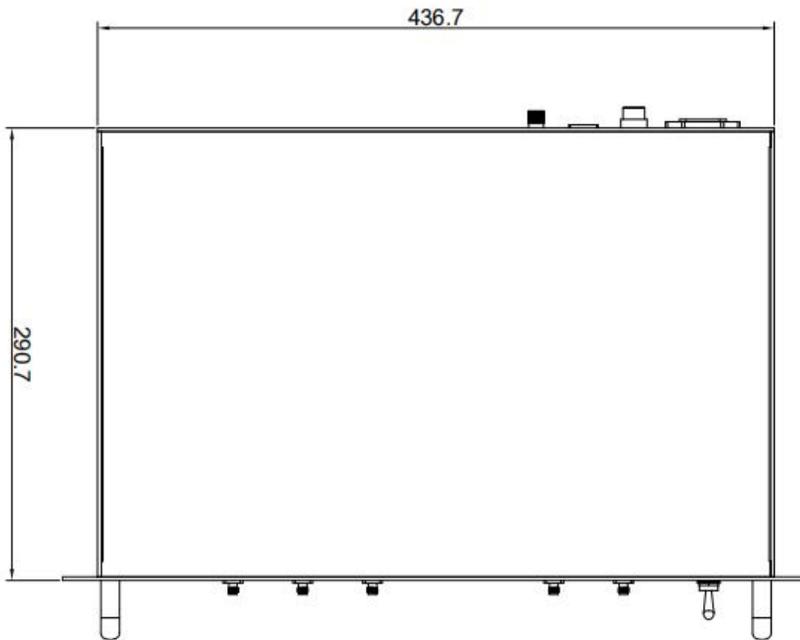
Parameter	Value	Units
RF Interface	SMA Female	
Communication Interface	RJ45: Ethernet	
Size	430*300*44.4	mm

Absolute Maximum Ratings:

Parameter	Value
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+70	°C
Non-operating Temperature	-55		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	10G rms (15 degree 2KHz) endurance			
Shock(non operating)	50G for 12msc half sin wave			

Ordering Information:

Base Number	Description	Revision
TLSG-0R218-20-3E	RF Signal Generator 0.2~18GHz, CW, Three Independent Outputs, -30~+20dBm	Rev.1.0

Model Nmuber: TLSG-XX XX-XX-X-TS

① ② ③ ④ ⑤

- ①Min. Output Freq. (GHz)
- ②Max. Output Freq. (GHz)
- ③Max. Output Power (dBm)
- ④Number of Output Channels
- ⑤Touchscreen Function, Optional