

RF Signal Generator

Three Independent Outputs/0.2-18GHz/-30~+20dBm

Model: TLSG-OR218-20-3

TLSG-OR218-20-3 delivers high-quality signals, precise signal levels, and a broad output power range with a max power of up to 20 dBm. It is well-suited to address the demanding testing requirements of communication, radar, and related fields.

Features:

- Output Frequency range: 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
Output Power	@1-12GHz	-30		20	dBm
	@0.2-1GHz	-30		17	
	@12-18GHz	-30		17	
Frequency Step		0.1			Hz
Frequency Switching time				20	ms
Power Step		0.5			dB
Spurious Rejection			-65	-60	dBc
Harmonic Rejection			-55	-50	dBc
Reference Mode		External/Internal Reference Selectable			
External Reference Input Frequency		10			MHz
External Reference Input Power			5		dBm
Reference Output Frequency		100			MHz
Reference Output Power			10		dBm
Power Supply (AC)			220		V

Electrical Characteristics:

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

Mechanical Specifications:

Parameter	Value	Units
RF Interface	SMA Female	
Communication Interface	Ethernet	
Size	430*300*44.4	mm
Weight	TBD	g

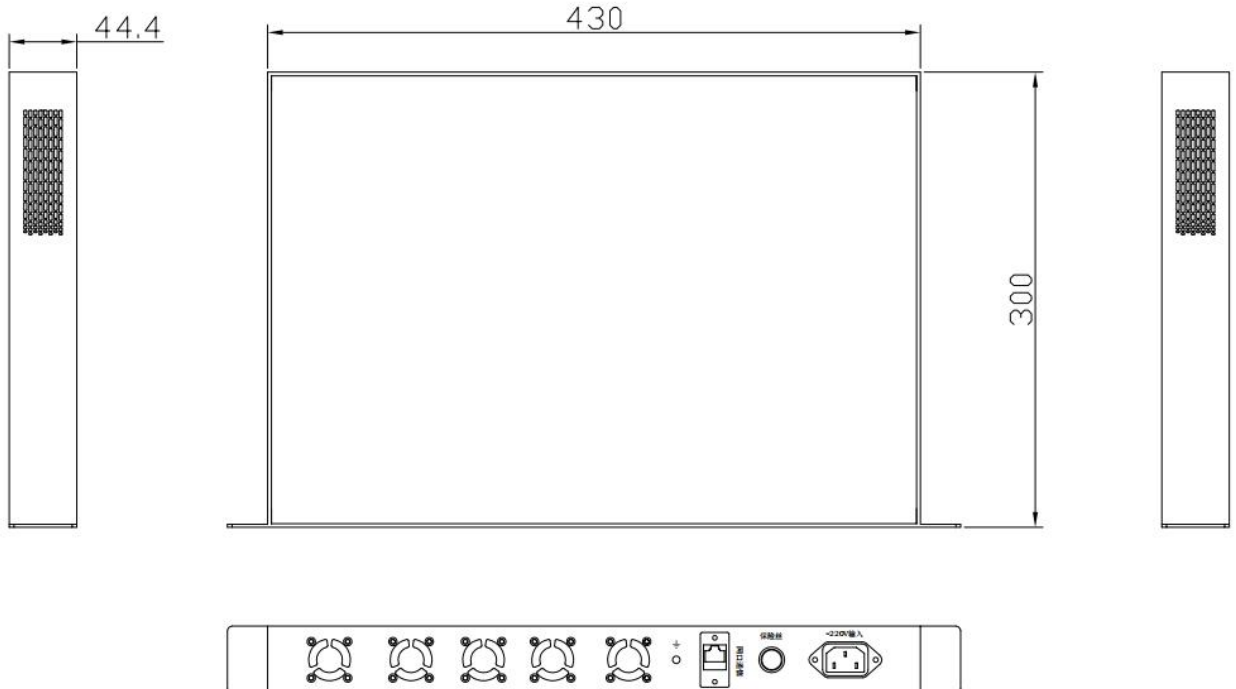
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

Regulatory Compliance:



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-0R218-20-3	RF Signal Generator 0.2~18GHz, CW, Three Independent Outputs, -30~+20dBm	Rev.1.1

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

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