

RF Signal Generation

Three channel/0.2-18GHz/-30~+20dBm Output Power Model: TLSG-00218-20-T

TLSG-00218-20-T is a RF signal generation, settable from 200MHz to 18 GHz. The settable output power range is from -30 to +20 dBm.

Features:

- Output Frequency range: 0.2-18GHz
- Output Power: -30~+20dBm
- Switching time: 20ms Max
- 50 Ohm Matched Input / Output

• 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
	0.2G-1G 12-18GHz	-30		17	dBm
Frequency Step		0.1			Hz
Switching time				20	ms
Power Step		0.5			dB
Spurious			-65	-60	dBc
Harmonics		50	55		dBc
Power Supply			220		V
Control Model		Ethernet			
Reference		Self-adaptation			
Reference Input		10			MHz
Input Power			5		dBm
Reference Output		100			MHz
Output power			10		dBm

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

Mechanical Specifications:

Parameter	Value	Units
RF Connector	SMA Female	
Com.Interface	LAN	
Size	430*300*44.4	mm
Weight	TBD	g

Absolute Maximum Ratings:

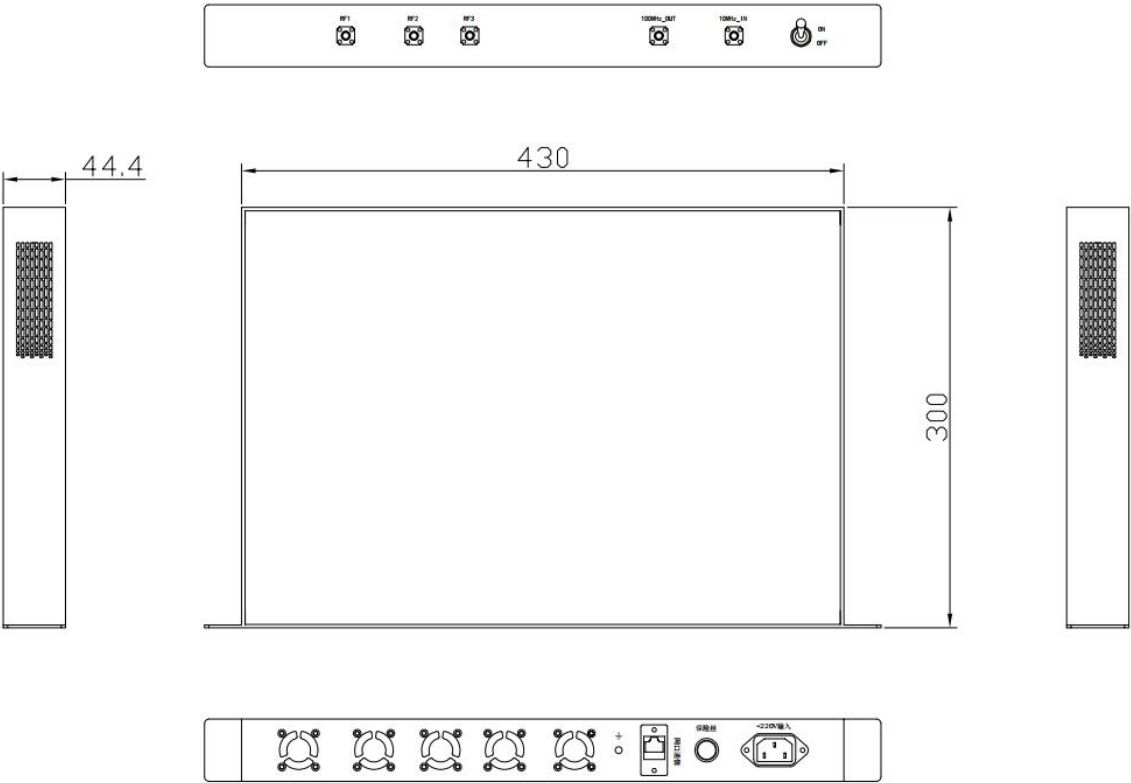
Parameter	Value
ESD sensitivity (HBm)	Class 0, passed 150V



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

Outline Drawing:

Unit:mm



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-00218-20-T	Three channel Frequency Synthesizer, 0.2-18GHz, -30~+20dBm Output Power	Rev.1.1