

Frequency Synthesizer

4-16GHz/CW/Touchscreen

Model: TLFS-4G16G-1-LAN

TLFS-4G16G-1-LAN features excellent signal quality, accurate signal levels, and a wide output power range, delivering a maximum output power of up to 20 dBm over the 4 GHz to 16 GHz frequency band. Equipped with a touchscreen interface, this instrument meets the stringent test requirements for communications, radar and related applications.

Features:

- RF coverage: 4 to 16GHz
- Output Power: 20dBm
- Great Spurious

Applications:

- Defense & federal communications
- Instrumentations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Input Reference Frequency		10		MHz
Input Reference Power		5±3		dBm
Input Reference Phase Noise@1KHz		-155		dBc/Hz
Output Reference Frequency		100		MHz
Output Frequency	4		16	GHz
Frequency Step		1		Hz
Frequency Hopping Time		200		us
Output Reference Power		10		dBm
Output Power	-20		20	dBm
Power Step		0.25		dB
Output Power Flatness		±1		dB
Frequency Stability		±0.2		ppm
Frequency Accuracy		±1		ppb
Spurious			-50	dBc
Harmonic Suppression@Pout=20dBm		15		dBc

Electrical Characteristics:

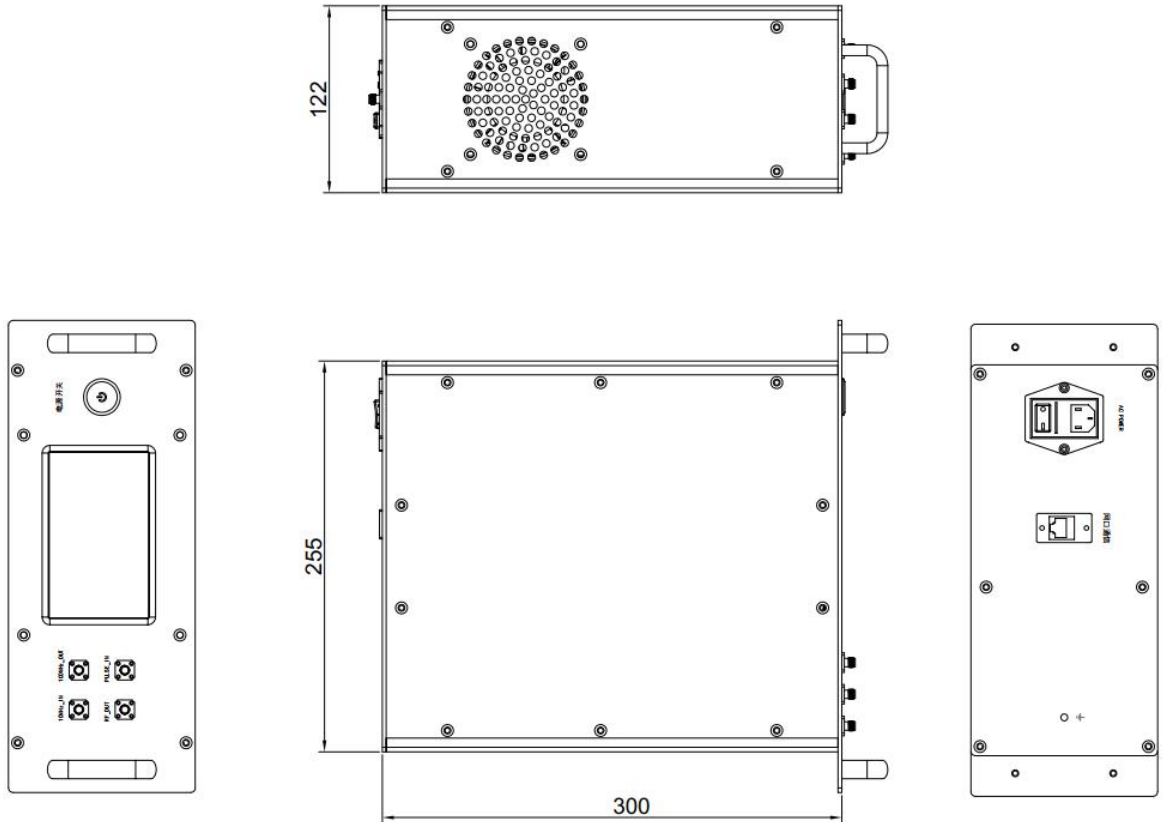
Parameter	Min	Typ	Max	Units
Phase noise		-80		dBc/HZ@100Hz
		-85		dBc/HZ@1KHz
		-90		dBc/HZ@10KHz
		-95		dBc/HZ@100KHz
		-110		dBc/HZ@1MHz
Number of output channels		1		
Control Model	RJ45(Ethernet port)			
Function	Sweep&PULSE_IN			
Modulated Pulse Width	100ns		10ms	
Modulated Cycle Time	500ns		10ms	
AC Supply Voltage	85	220	264	V AC
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
RF Connector	SMA Female	
Size	300*255*122	mm

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+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
TLFS-4G16G-1-LAN	Frequency Synthesizer, 4-16GHz, -20~+20dBm Output Power	Rev.1.0