

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

电气特性 Electrical Characteristics:

参数 Parameter	Min	Typ	Max	单位 Units
输入参考频率 Input Reference Frequency		10		MHz
输入参考功率 Input Reference Power		5±3		dBm
输入参考 相位噪声 Input Reference Phase Noise@1KHz		-155		dBc/Hz
输出参考频率 Output Reference Frequency		100		MHz
输出频率 Output Frequency	4		16	GHz
频率步进 Frequency Step		1		Hz
跳频速度 Frequency Hopping Time		200		us
输出参考功率 Output Reference Power		10		dBm
输出功率 Output Power	-20		20	dBm
功率步进 Power Step		0.25		dB
输出功率平坦度 Output Power Flatness		±1		dB
频率稳定度 Frequency Stability		±0.2		ppm
频率准确度 Frequency Accuracy		±1		ppb
杂散 Spurious			-50	dBc
谐波抑制 Harmonic Suppression@Pout=20dBm		15		dBc

电气特性 Electrical Characteristics:

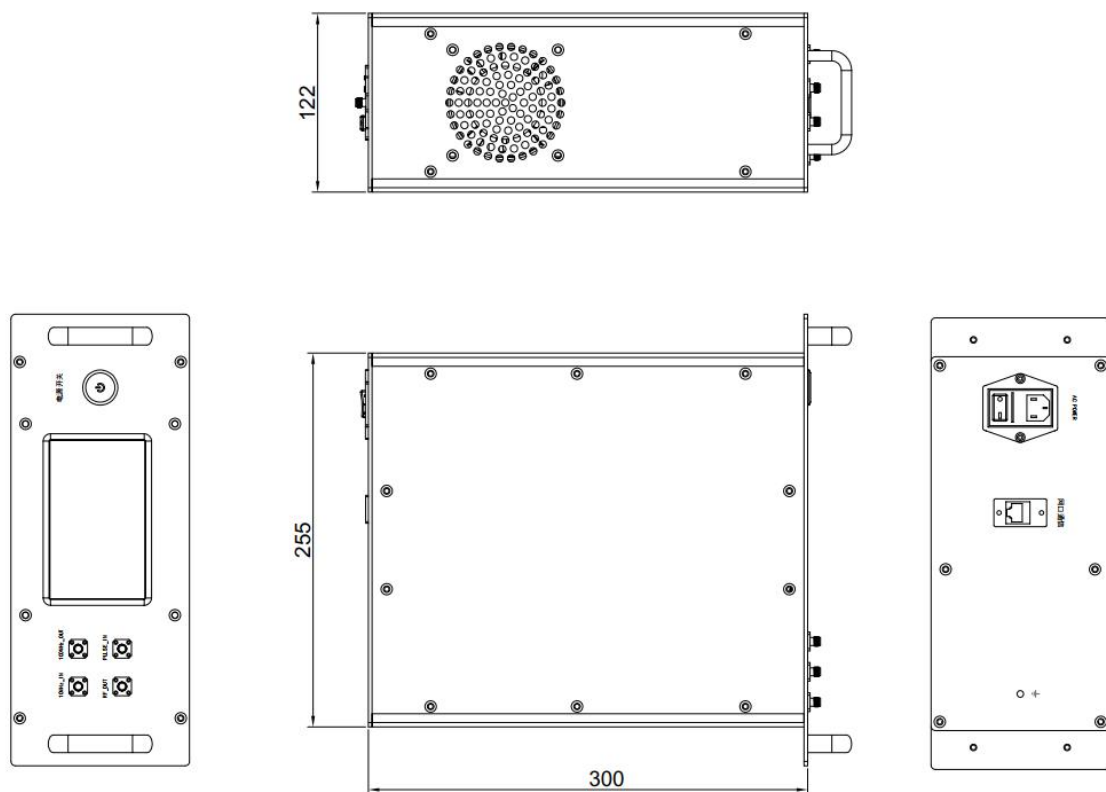
参数 Parameter	Min	Typ	Max	单位 Units
相位噪声 Phase noise		-80		dBc/HZ@100Hz
		-85		dBc/HZ@1KHz
		-90		dBc/HZ@10KHz
		-95		dBc/HZ@100KHz
		-110		dBc/HZ@1MHz
输出通道数 Number of output channels		1		
控制方式 Control Model	RJ45(Ethernet port)			
功能 Function	Sweep&PULSE_IN			
调制带宽 Modulated Pulse Width	100ns		10ms	
调制周期 Modulated Cycle Time	500ns		10ms	
交流供电 AC Supply Voltage	85	220	264	V AC
阻抗 Impedance		50		Ohms

机械特性 Mechanical Specifications:

参数 Parameter	指标 Value	单位 Units
RF接口 RF Connector	SMA Female	
尺寸 Size	300*255*122	mm

外形图 Outline Drawing:

Unit:mm; Tolerance:±0.1mm



温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-40		+70	°C
存储温度 Non-operating Temperature	-55		+85	°C
相对湿度 Relative humidity		95		%
海拔 Altitude	10,000			feet
震动 Shock / Vibration(MIL-STD-810F)	10G rms (15 degree 2KHz) endurance			
冲击 Shock(non operating)	50G for 12msc half sin wave			

订货信息 Ordering Information:

标准型号 Base Number	描述 Description	版本号 Revision
TLFS-4G16G-1-LAN	Frequency Synthesizer,4-16GHz, -20~+20dBm Output Power	Rev.1.0