

## Frequency Synthesizer

### 0.2-16GHz/CW/Touchscreen

**Model: TLFS-0.2G16G-1-LAN**

TLFS-0.2G16G-16-1-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 0.2 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 : 0.2 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
外参考频率 External Reference Frequency		10		MHz
外参考功率 External Reference Power	2	5	8	dBm
外参考 相位噪声 External Reference Phase Noise		-150		dBc/Hz
输出频率 Output Frequency	0.2		16	GHz
频率步进 Frequency Step		10		KHz
跳频速度 Frequency Hopping Time			200	us
输出功率 Output Power	-20		+20	dBm
功率步进 Power Step		0.2		dB
输出功率平坦度 Output Power Flatness		±1		dB
频率稳定度 Frequency Stability		±0.2		dB
频率准确度 Frequency Accuracy		±1		dB
杂散 Spurious		-60		dBc
谐波 Harmonic@Pout=20dBm		-20		dBc
调制深度 Modulation Depth	60			dBc
输出通道数 Number of output channels	1			
控制方式 Control Model	RJ45(Ethernet port)			

## 电气特性 Electrical Characteristics:

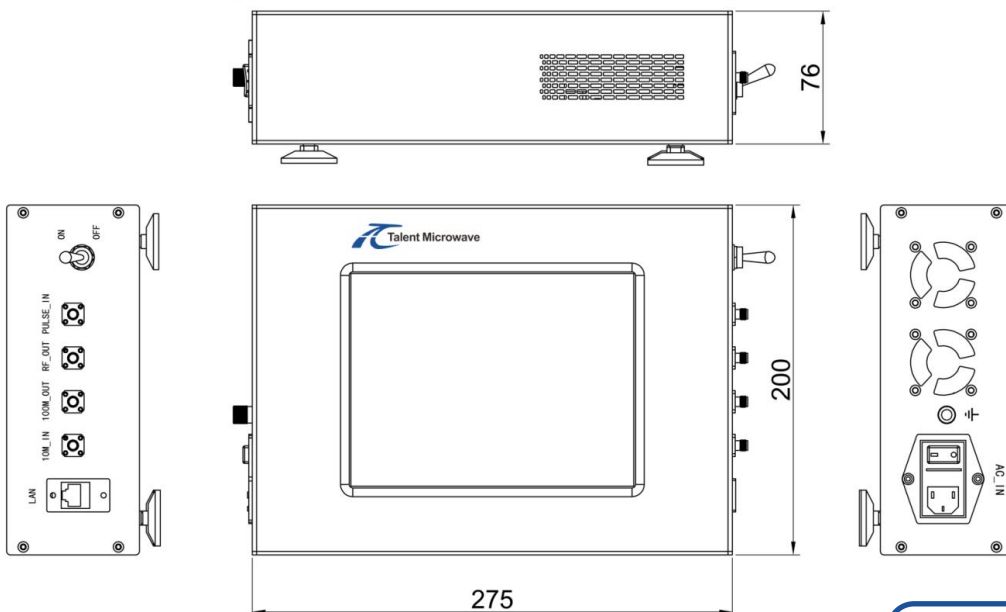
参数 Parameter	Min	Typ	Max	单位 Units
相位噪声 Phase noise		-80		dBc/HZ@100Hz
		-85		dBc/HZ@1KHz
		-90		dBc/HZ@10KHz
		-95		dBc/HZ@100KHz
		-110		dBc/HZ@1MHz
交流供电 AC Supply Voltage	85		264	V AC
阻抗 Impedance		50		Ohms

## 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	275*200*76	mm

## 外形图 Outline Drawing:

Unit:mm



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

## 温度环境 Environmental Conditions:

参数 Parameter	Min	Typ	Max	单位 Units
操作温度 Operating Temperature	-45		+85	°C
存储温度 Non-operating Temperature	-55		+125	°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-0.2G16G-1-LAN	Frequency Synthesizer, 0.2-16GHz, -20~+20dBm Output Power	Rev.1.1