

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 10 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:10dBm
- Great Spurious

Applications:

- Defense & federal communications
- Instrumentations

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
External Reference Frequency		10		MHz
External Reference Power	2	5	8	dBm
External Reference Phase Noise		-150		dBc/Hz
Output Frequency	0.2		16	GHz
Frequency Step		1		Hz
Frequency Hopping Time		200		us
Output Power	-20		+10	dBm
Power Step		0.1		dB
Output Power Flatness		±1		dB
Frequency Stability		±0.2		ppm
Frequency Accuracy		±1		ppb
Spurious		-60		dBc
Harmonic@Pout=20dBm		-20		dBc
Modulation Depth	60			dBc
Number of output channels	1			
Control Model	RJ45(Ethernet port)			

Electrical Characteristics:

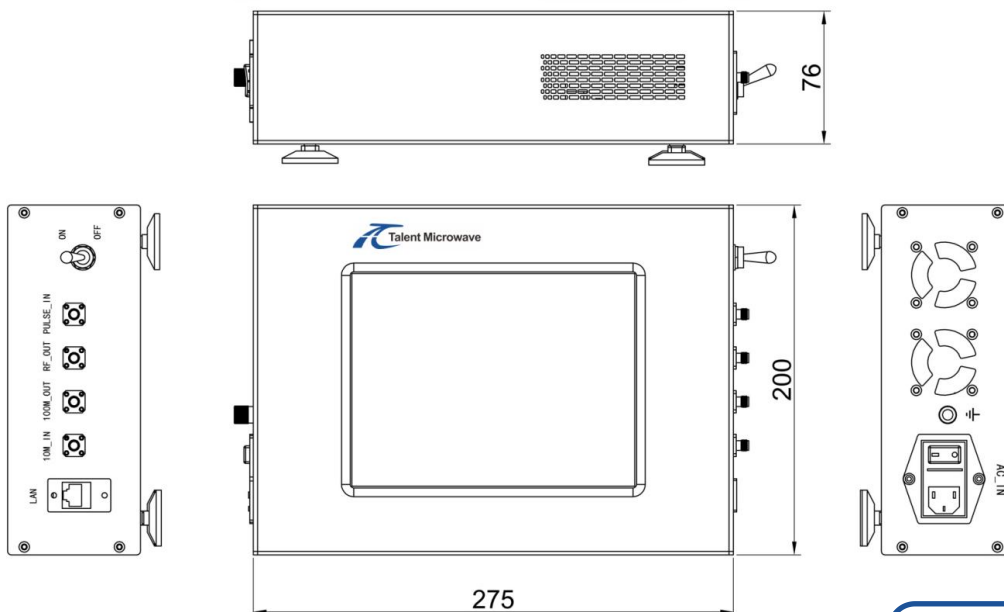
Parameter	Min	Typ	Max	Units
Phase noise		-80		dBc/HZ@100Hz
		-85		dBc/HZ@1KHz
		-90		dBc/HZ@10KHz
		-95		dBc/HZ@100KHz
		-110		dBc/HZ@1MHz
AC Supply Voltage	85		264	V AC
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
RF Connector	SMA Female	
Size	275*200*76	mm

Outline Drawing:

Unit:mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+70	°C
Non-operating Temperature	-45		+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-0.2G16G-1-LAN	Frequency Synthesizer, 0.2-16GHz, -20~+10dBm Output Power	Rev.1.1