

Model:TLPA1G2.7G-52-52

Power Amplifier

1-2.7GHz,Gain:52dB,Psat:52dBm

Feature:

- Wide Band: 1-2.7GHz
- Gain: 52dB Typ
- Psat Output Power: 52 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical:

Parameter	Min.	Typ.	Max.	Units
Frequency range	1-2.7			GHz
Gain	50	52		dB
Gain Flatness		±3	±4	dB
Psat(CW)	48	49	50	dBm
Psat (100us Pulse Width,10%Duty Ratio)	52	53		dBm
@Pout=52dBm		-15	-10	dBc
Spurious@Pout=52dBm			-60	dBc
Input VSWR		1.5	2.0	:1
DC Voltage	46	48	50	V DC
DC Supply Current		2	10	A
Impedance	50			Ohms

Mechanical :

Parameter	Value	Units
Input /Output Connector	SMA /N Female	
Bias	DB9	
Size	200*130*25	mm
Weight	500	g



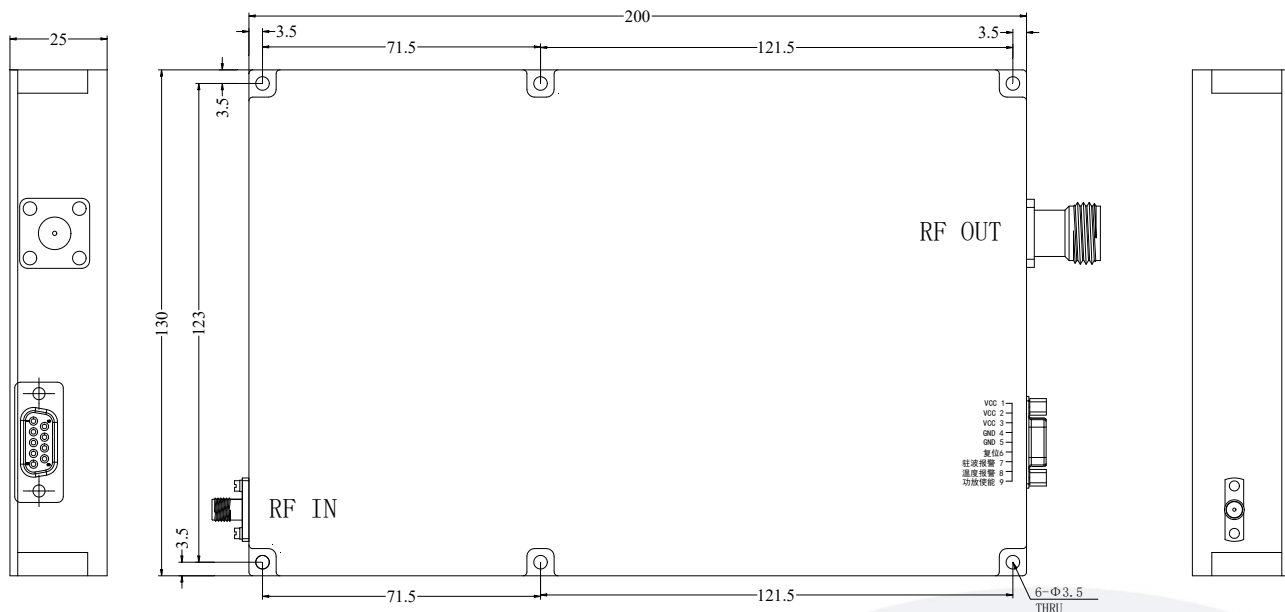
Available 220V System
Benchtop Amplifier

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+50 V
RF INPUT POWER	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

D-sub, 9-Pin, Female

引脚编号	标识	类型	功能详细说明
1	+48	输入	供电正极 +46.0~50.0VDC
2	+48	输入	供电正极 +46.0~50.0VDC
3	+48	输入	供电正极 +46.0~50.0VDC
4	GND	输入	供电负极
5	GND	输入	供电负极
6	复位	输入	当功放触发驻波保护时，功放将关闭，并进入状态锁定，给此引脚10us的低脉冲，将重启功放。只能复位驻波保护。
7	驻波报警	输出	功放输出端外部驻波大于5时，功放关闭，此引脚将输出高电平。外部驻波小于5时，此引脚输出低电平。
8	温度报警	输出	功放壳体温度大于70℃时，功放关闭，此引脚将输出高电平。功放壳体温度降低到60℃时，功放恢复正常工作，此引脚将输出低电平。
9	功放使能	输入	高电平5V（或悬空）打开功放，低电平关闭功放

Environmental Conditions:

Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-45		+70	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA1G2.7G-52-52	Power amplifier 1GHz-2.7GHz,Gain:52dB,Psat:52dBm, 48V DC,Without Heatsink	Rev.1.0
TLPA1G2.7G-52-52-HS	Power amplifier 1GHz-2.7GHz,Gain:52dB,Psat:52dBm, 48V DC,With Heatsink	Rev.1.0