

Model:TLPA4G6G-53-47
Power Amplifier
4GHz-6GHz,Gain:53dB,Psat:47dBm
Feature:

- Ultra Wide Band: 4GHz-6GHz
- Gain: 53dB Typ
- Psat Output Power: 47 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

电气特性 Electrical Specifications:

参数Parameter	Min	Typ	Max	单位Units
频率范围 Frequency range	4-6			GHz
功率增益 Power Gain	50	53		dB
增益平坦度 Gain Flatness		±2	±3	dB
饱和输出功率 Output Psat	46	47		dBm
谐波抑制 Harmonics @Pout=47dBm		-15		dBc
输入驻波 Input VSWR		1.5	2.0	:1
直流电压 DC Voltage		28		V DC
直流电流 DC Supply Current		1	10	A
阻抗 Impedance	50			Ohms

机械特性 Mechanical Specifications:

参数Parameter	指标 Value	单位Units
输入输出接口 Input /Output Connector	SMA Female	
直流偏置 Bias	Solder Pin	
尺寸 Size	200*120*20	mm
重量 Weight	1000	g


绝对最大值 Absolute Maximum Ratings:

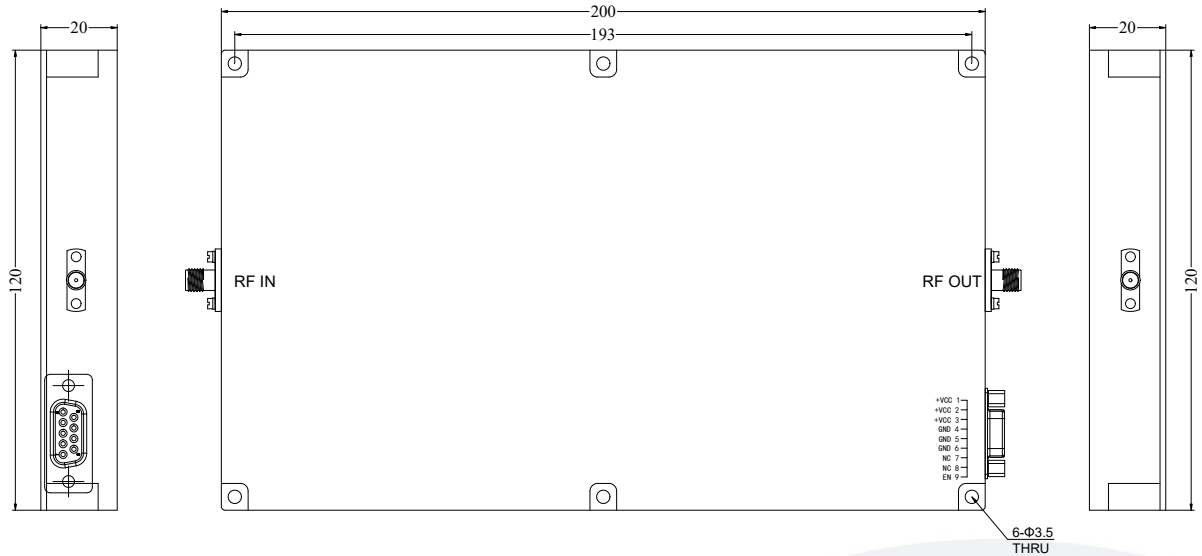
参数Parameter	指标 Value
供电偏置电压 Supply Bias Voltage	38V
输入功率 RF INPUT POWER	5 dBm
ESD灵敏度 ESD sensitivity (HBm)	Class 0, passed 150V

直流供电连接器 D-sub, 9-Pin, Female:

引脚编号	标识	类型	功能详细说明
1	VDD	输入	+26.0-30.0VDC
2	VDD	输入	+26.0-30.0VDC
3	VDD	输入	+26.0-30.0VDC
4	GND	输入	Ground
5	GND	输入	Ground
6	GND	输入	Ground
7	Current Sensor	输出	Analog voltage relative to ID @ 25mV /100mA
8	Temp. Sensor	输出	Analog voltage relative to Module's Temperature @ 10 mV/°C
9	EN	输入	Amplifier Enable: TTL "Low" (Logic 0) or Open Amplifier Disable: TTL "High" (Logic 1)

外形尺寸 Outline Drawing:

Unit: mm



*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

温度环境 Environmental Conditions:

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

订货信息 Ordering Information:

标准型号 Part Number	描述 Description	版本号Revision
TLPA4G6G-53-47	Power amplifier 4GHz-6GHz,Gain:53dB,Psat:47dBm, 28V DC, Without Heatsink	Rev.1.0
TLPA4G6G-53-47-HS	Power amplifier 4GHz-6GHz,Gain:53dB,Psat:47dBm, 28V DC, With Heatsink	Rev.1.0