

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

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	4-6			GHz
Power Gain	50	53		dB
Gain Flatness		±2	±3	dB
Output Psat	46	47		dBm
Harmonics @Pout=47dBm		-15		dBc
Input VSWR		1.5	2.0	:1
DC Voltage		28		V DC
DC Supply Current		1	10	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female	
Bias	Solder Pin	
Size	200*120*20	mm
Weight	1000	g

Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	38V
RF INPUT POWER	5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



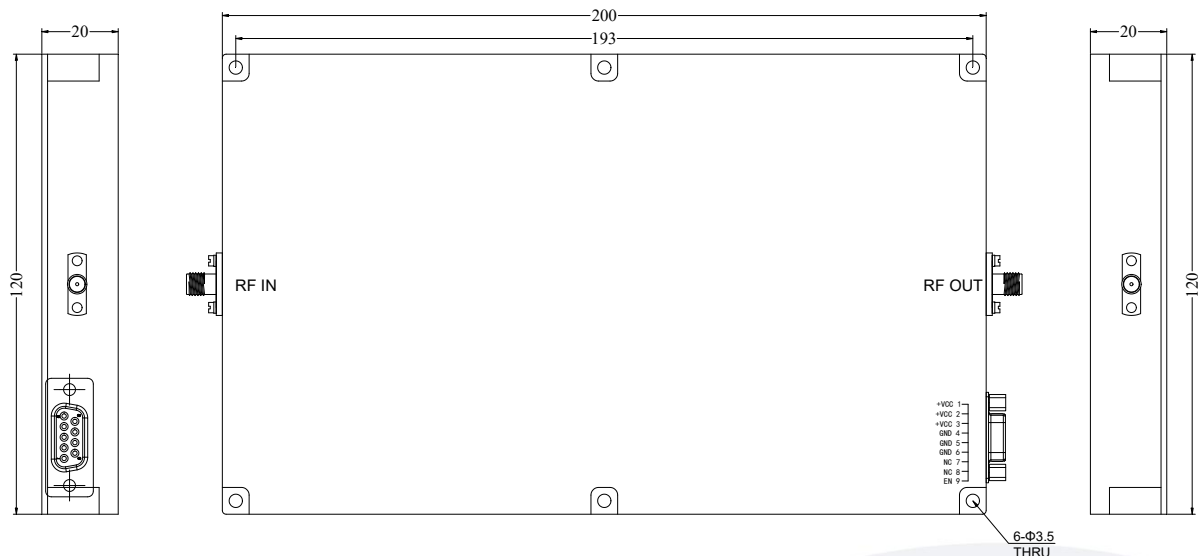
Available 220V System
Benchtop Amplifier

D-sub, 9-Pin, Female:

Pin	Identification	Type	Function specification
1	VDD	Input	+26.0-30.0VDC
2	VDD	Input	+26.0-30.0VDC
3	VDD	Input	+26.0-30.0VDC
4	GND	Input	Ground
5	GND	Input	Ground
6	GND	Input	Ground
7	Current Sensor	Output	Analog voltage relative to ID @ 25mV /100mA
8	Temp. Sensor	Output	Analog voltage relative to Module's Temperature @ 10 mV/°C
9	EN	Input	Amplifier Enable: TTL "Low" (Logic 0) or Open Amplifier Disable: TTL "High" (Logic 1)

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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
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