

Model:TLPA0.4G2.5G-50-50
Power Amplifier
0.4-2.5GHz,Gain:50dB,Psat:50dBm
Feature:

- Ultra Wide Band: 0.4-2.5GHz
- Gain:50dB Min
- Psat Output Power:50dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.4-2.5			GHz
Gain	50	52		dB
Gain Flatness		±1.8	±2.5	dB
Output Psat		100		W
Noise Figure			10	dB
Spurious			-60	dBc
Harmonics@Pout=100W		-20		dBc
Input VSWR		1.5	2	:1
DC Voltage	+26	+28	+30	V DC
DC Supply Current		12	15	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	D-SUB 9-Pin, Male	
Size	208.3*91.4*26.9	mm
Weight	1000	g

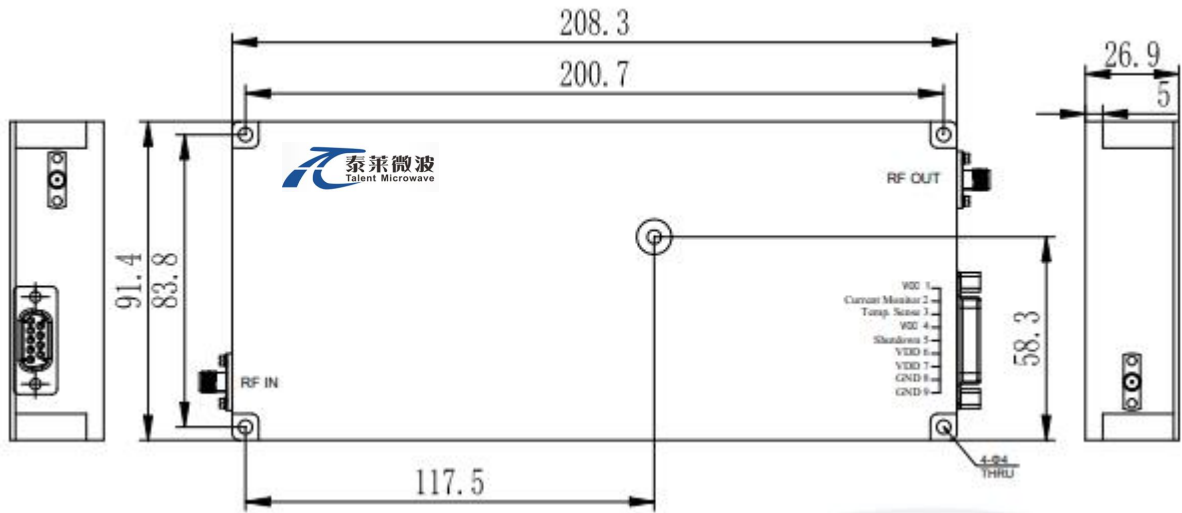
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+30V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
 Benchtop Amplifier**

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

D-SUB 9-Pin, Male

Pin	identification	Type	Function
1	+28V	Input	Power Supply Positive +26.0-30.0VDC。
2	NC	Input	
3	NC	Input	
4	GND	Input	Power Supply Negative
5	power amplifier enable	Input	High level (or suspended) turn on the power amplifier, short contact ground turn off the power amplifier.
6	+28V	Input	Power Supply Positive +26.0-30.0VDC
7	+28V	Input	Power Supply Positive +26.0-30.0VDC
8	GND	Input	Power Supply Negative
9	GND	Input	Power Supply Negative

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°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
TLPA0.4G2.5G-50-50	Power amplifier 0.4-2.5GHz,Gain:50dB,Psat:50dBm,+28V DC,Without Heatsink.	Rev.1.0
TLPA0.4G2.5G-50-50-HS	Power amplifier 0.4-2.5GHz,Gain:50dB,Psat:50dBm,+28V DC,With Heatsink.	Rev.1.0