

Model:TLPA1G5G-40-40

Power Amplifier 1-5GHz,Gain:40dB,Psat:40dBm

Feature:

- Ultra Wide Band: 1-5GHz
- Gain:40dB Min
- Psat Output Power:40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1-5			GHz
Gain	40	42		dB
Gain Flatness		±2	±3	dB
Output P1dB		38		dBm
Output Psat	40	41		dBm
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		1	2	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	140*80*15	mm
Weight	200	g

Absolute Maximum Ratings:

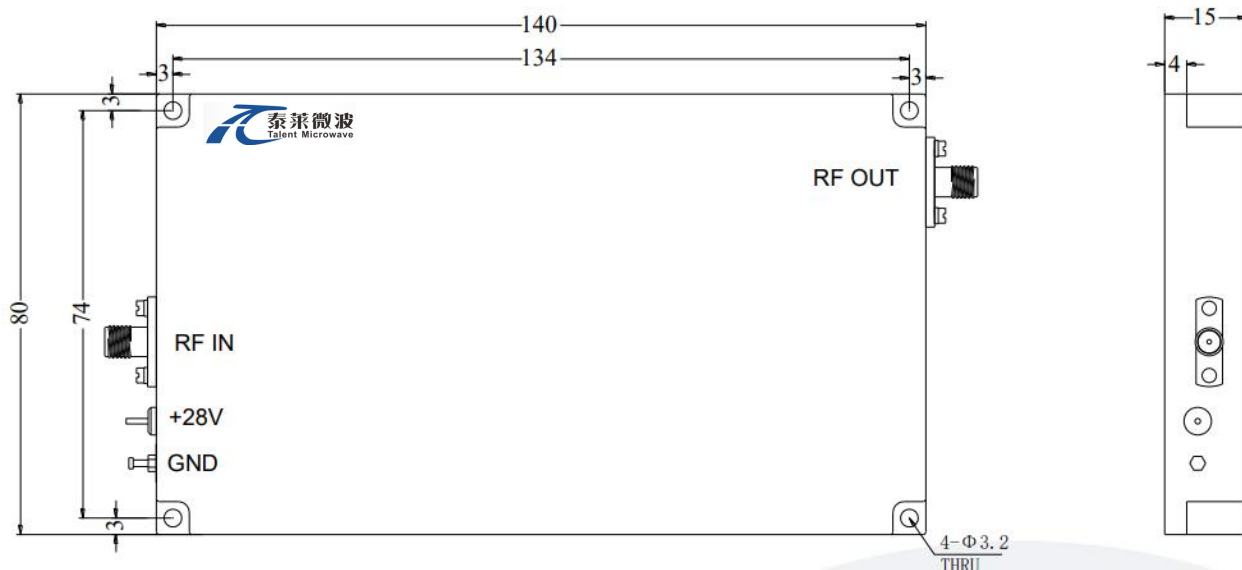
Parameter	Value
Supply Bias Voltage	30V
RF Input Power	3dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

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
TLPA1G5G-40-40	Power amplifier 1-5GHz,Gain:40dB,Psat:40dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA1G5G-40-40-HS	Power amplifier 1-5GHz,Gain:40dB,Psat:40dBm,+28V DC,With Heatsink.	Rev.1.1