

Model:TLPA1.5G2.5G-43-37

Power Amplifier

1.5-2.5GHz,Gain:43dB,Psat:37dBm

Feature:

- Ultra Wide Band:1.5-2.5GHz
- Gain:43dB Typ
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1.5-2.5			GHz
Gain	40	43		dB
Gain Flatness		±1.5	±2	dB
Output P1dB	35	36		dBm
Output Psat	37			dBm
Spurious@Psat		-60		dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		2		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	95*85*18	mm
Weight	/	g

Absolute Maximum Ratings:

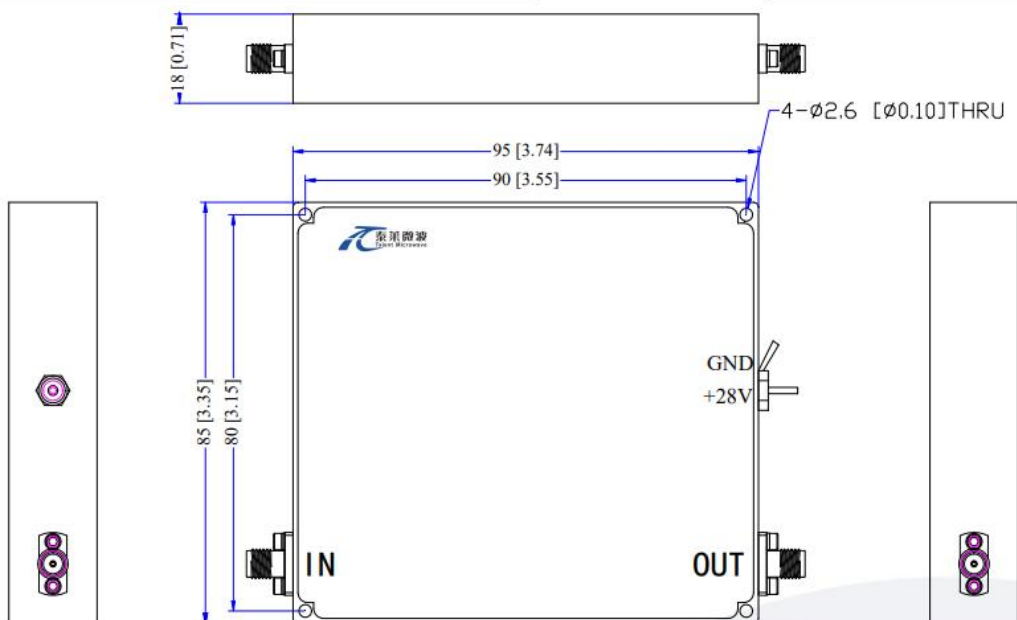
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	8dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

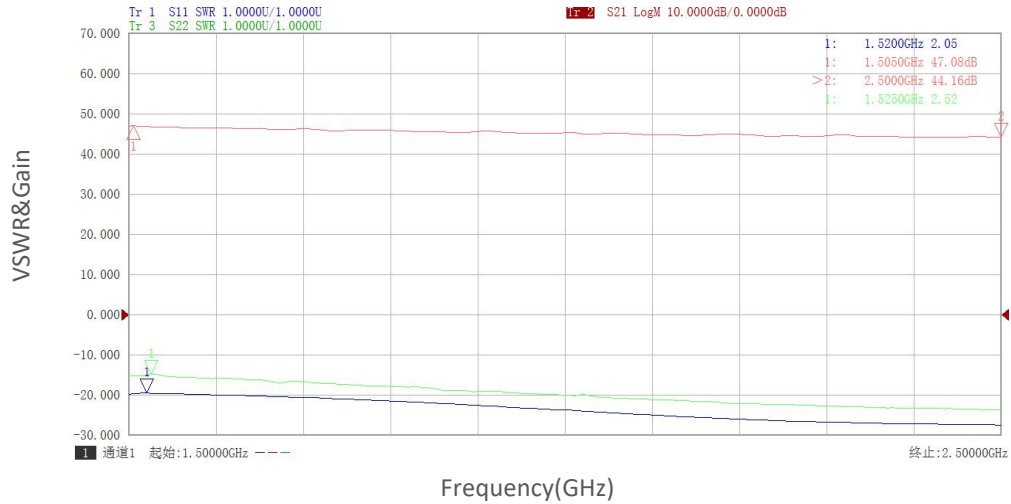
Parameter	Min	Typ	Max	Units
Operating Temperature	-30		+55	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude		30000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

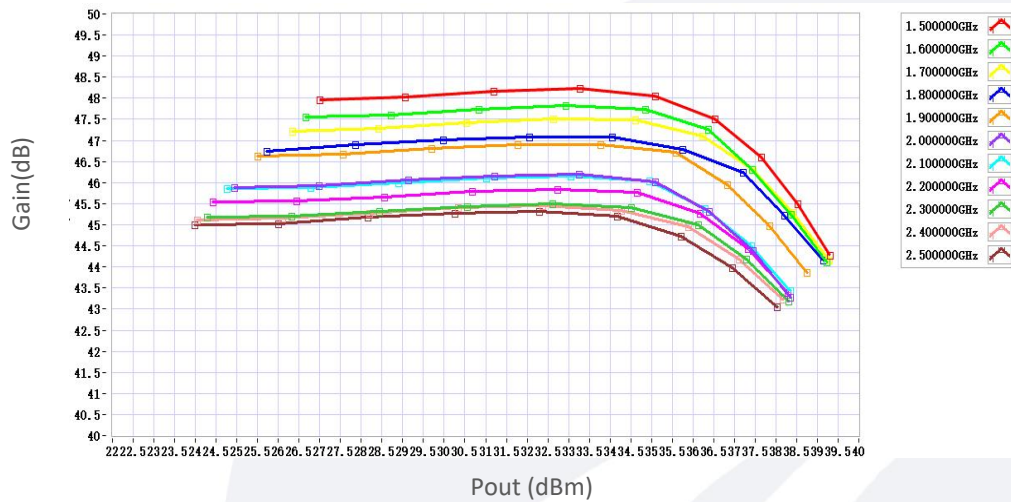
Part Number	Description	Revision
TLPA1.5G2.5G-43-37	Power amplifier 1.5-2.5GHz,Gain:43dB,Psat:37dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA1.5G2.5G-43-37-HS	Power amplifier 1.5-2.5GHz,Gain:43dB,Psat:37dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

VSWR&Gain vs Frequency



Gain vs Output Power



P1dB vs Frequency

