

Model:TLPA2G4G-43-36

Power Amplifier 2-4GHz,Gain:43dB,Psat:36dBm

Feature:

- Ultra Wide Band:2-4GHz
- Gain:43dB Typ
- Psat Output Power:36dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-4			GHz
Gain	42	43		dB
Gain Flatness		±2	±3	dB
Output P1dB		34		dBm
Output Psat	36	37		dBm
Harmonics@Pout=36dBm			-10	dBc
Input VSWR		1.5	2	:1
DC Voltage		+28		V DC
DC Supply Current		0.7	2	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	100*70*15	mm
Weight	150	g

Absolute Maximum Ratings:

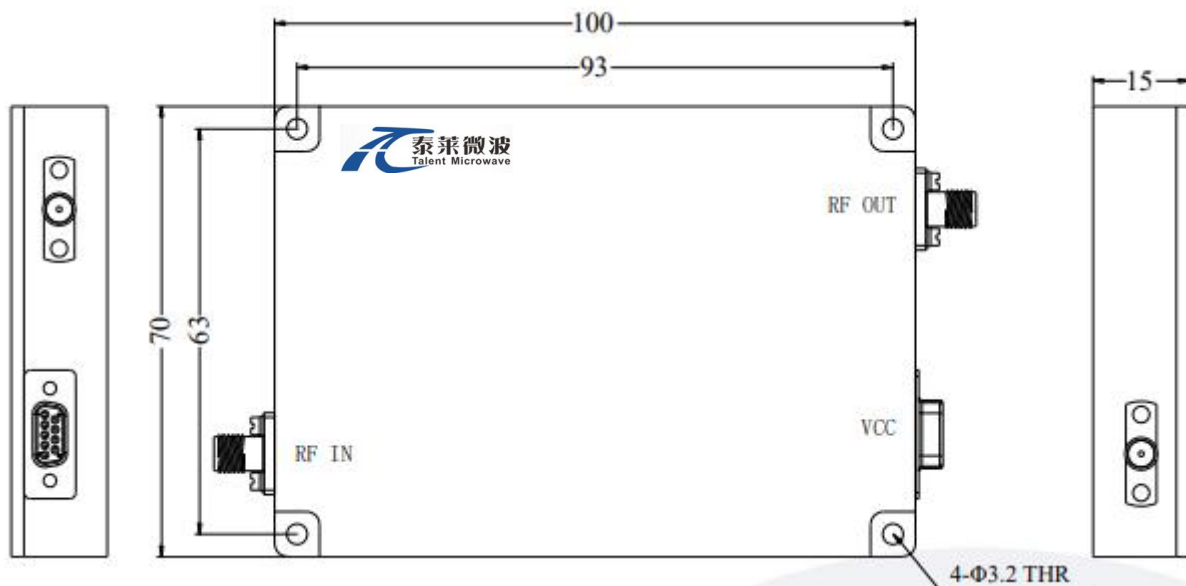
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	0dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

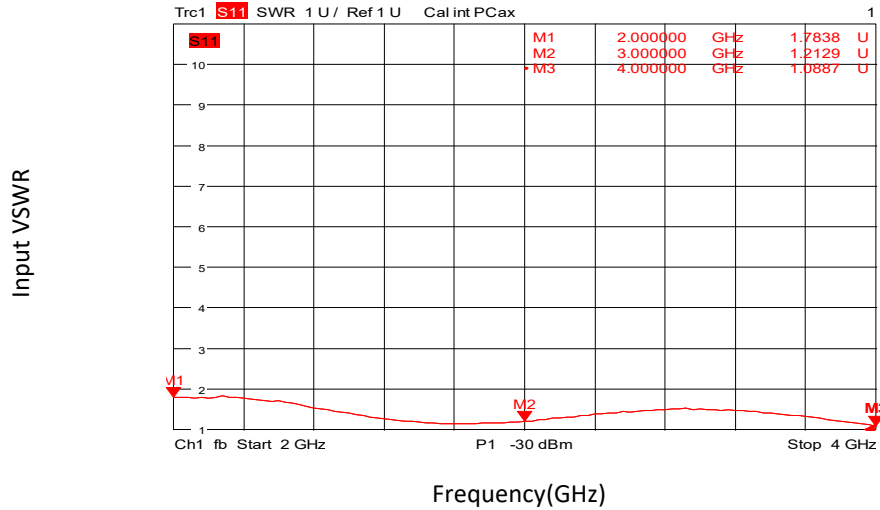
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

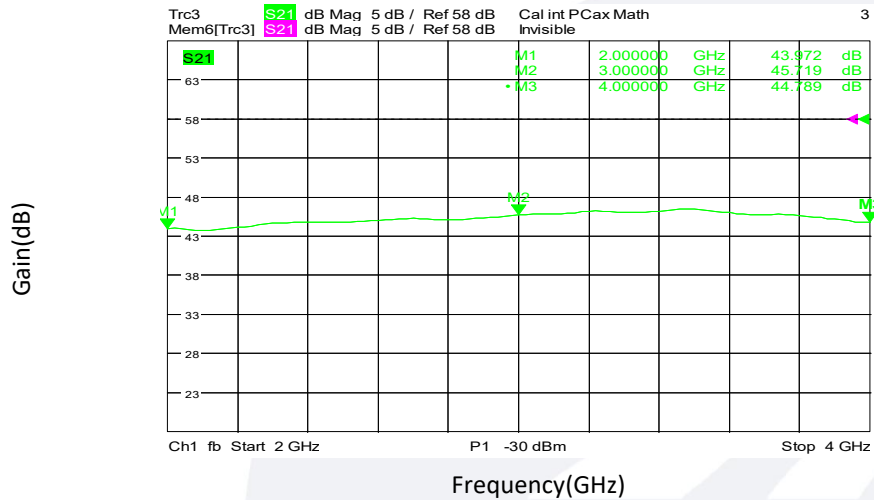
Part Number	Description	Revision
TLPA2G4G-43-36	Power amplifier 2-4GHz,Gain:43dB,Psat:36dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G4G-43-36-HS	Power amplifier 2-4GHz,Gain:43dB,Psat:36dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

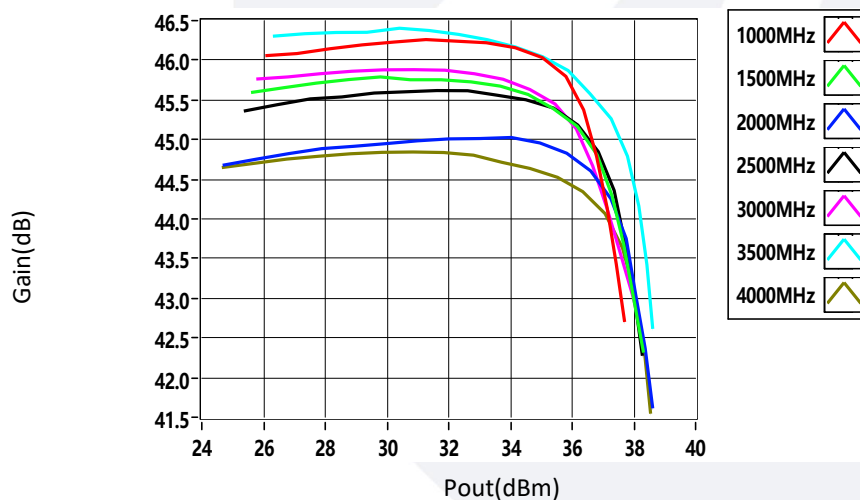
Input VSWR vs Frequency



Gain vs Frequency

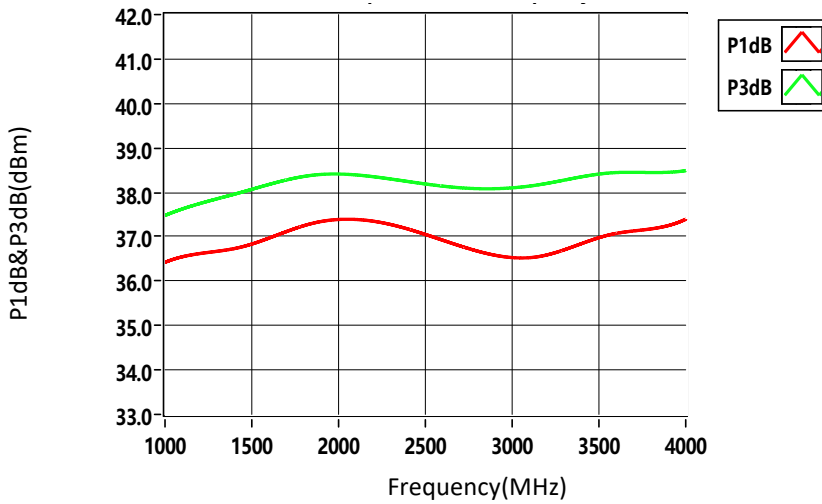


Gain vs Output Power

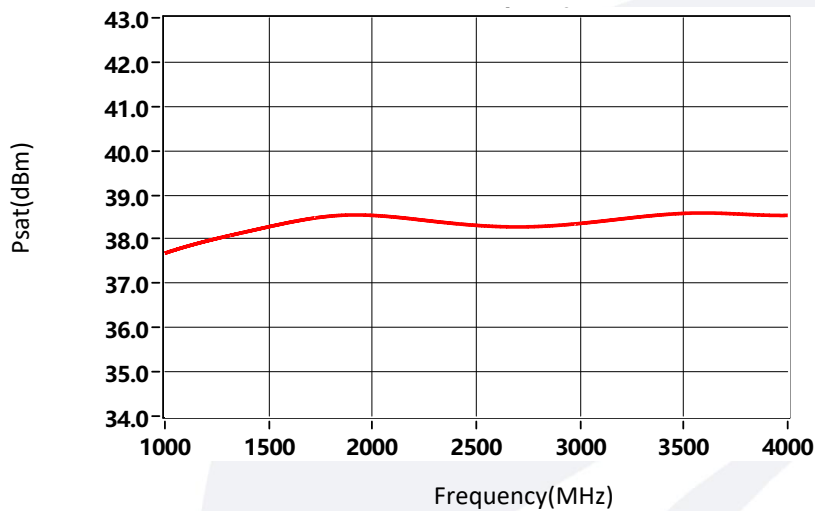


Typical Performance Data:

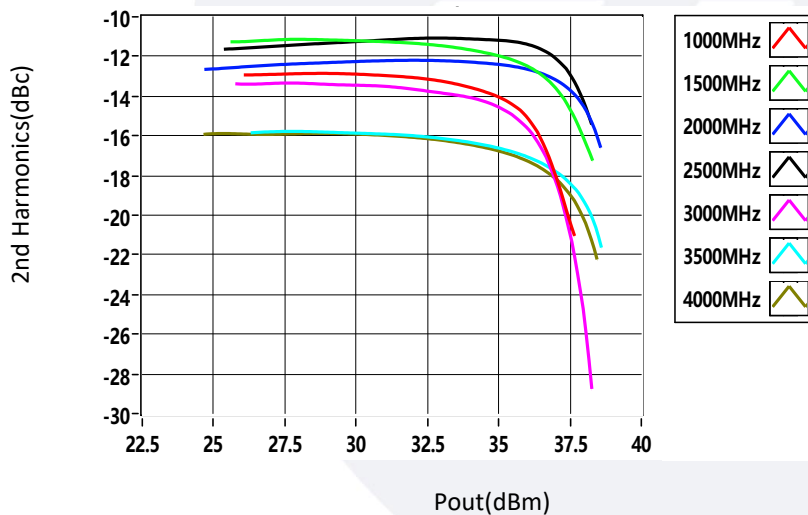
P1dB&P3dB vs Frequency



Psat VS Frequency



2nd Harmonics VS Output Power



Typical Performance Data:

3rd Harmonics VS Output Power

