

Model:TLPA10M40G-28-20
Power Amplifier
0.01-40GHz, Gain:28dB, P1dB:18dBm, Psat:20dBm
Feature:

- Ultra Wide Band: 0.01G-40GHz
- Gain: 28dB Typ
- Psat Output Power: 20 dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.01-40			GHz
Gain		28		dB
Gain Flatness		±2		dB
Output P1dB		18		dBm
Output Psat		20		dBm
Spurious		-60		dBc
Noise Figure		6		dB
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage		+12		V DC
DC Supply Current		400		mA
Impedance		50		Ohms

Mechanical Specifications:

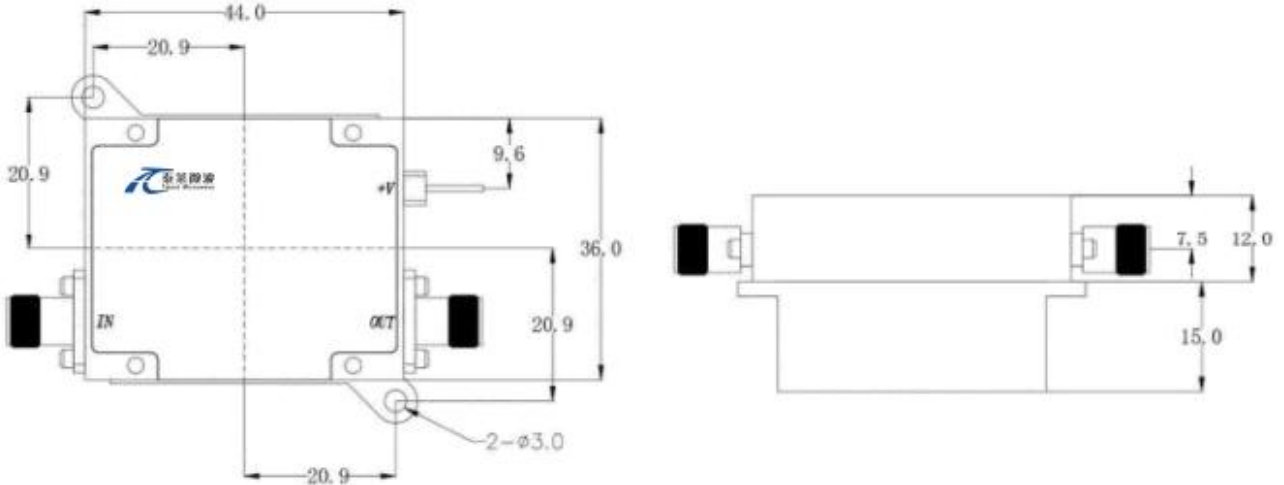
Parameter	Value	Units
Input /Output Connector	2.92 Female	
DC Bias	Solder Pin	
Size	44*36*12	mm
Weight	/	g


**Available 220V System
Benchtop Amplifier**
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit: mm



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

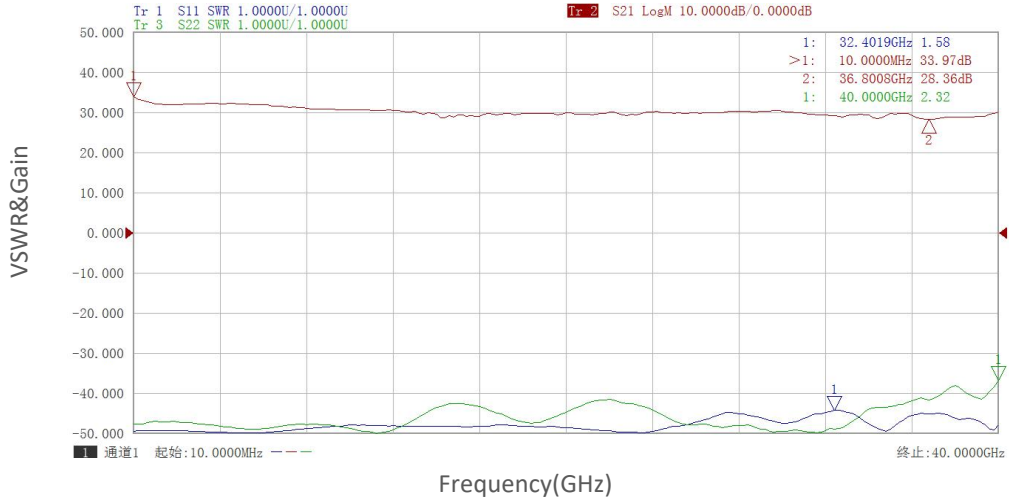
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

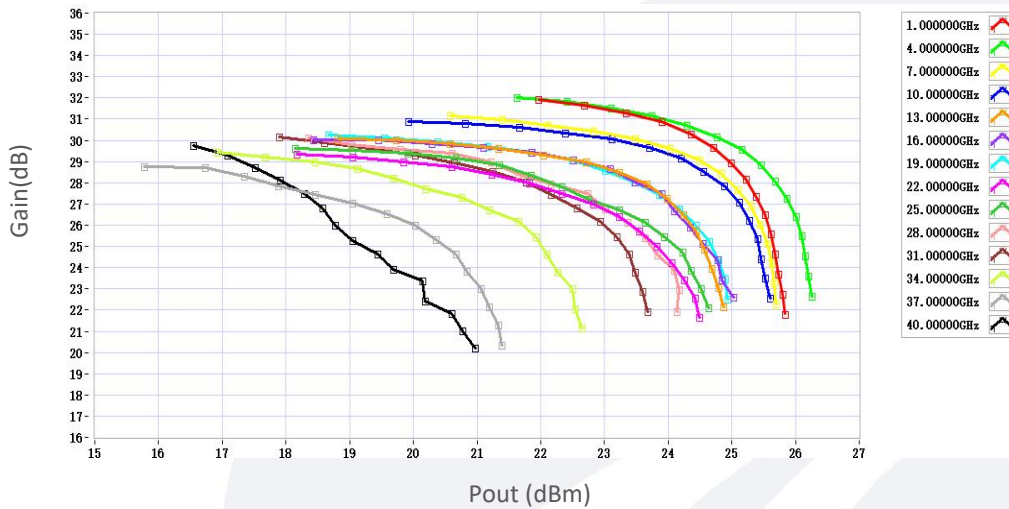
Part Number	Description	Revision
TLPA10M40G-30-22	Power amplifier 10MHz-40 GHz,Gain:30dB,P1dB:20dBm,12V DC,Without Heatsink.	Rev.1.1
TLPA10M40G-30-22-HS	Power amplifier 10MHz-40 GHz,Gain:30dB,P1dB:20dBm,12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

VSWR&Gain vs Frequency



Gain vs Output Power



P1dB vs Frequency



Typical Performance Data:

P3dB vs Frequency



Psat vs Frequency

