

Model:TLPA6G40G-28-20

Power Amplifier

6-40GHz, Gain:28dB, Psat:22dBm

Feature:

- Ultra Wide Band: 6-40GHz
- Gain:26dB Min
- Psat Output Power:22dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-40			GHz
Gain	26	28		dB
Gain Flatness		±2		dB
Output Psat		22		dBm
Spurious		-60		dBc
Noise Figure		6		dB
Input VSWR		1.7	2.3	:1
Output VSWR		1.7	2.3	:1
DC Voltage		+12		V DC
DC Supply Current	255			mA
Impedance	50			Ohms

Mechanical Specifications:

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

Absolute Maximum Ratings:

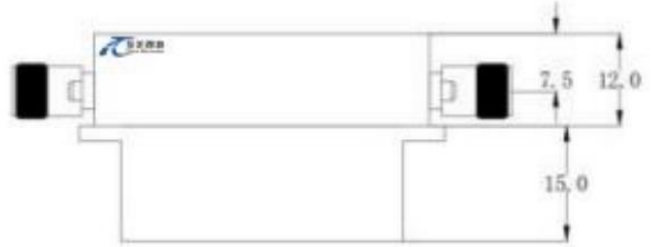
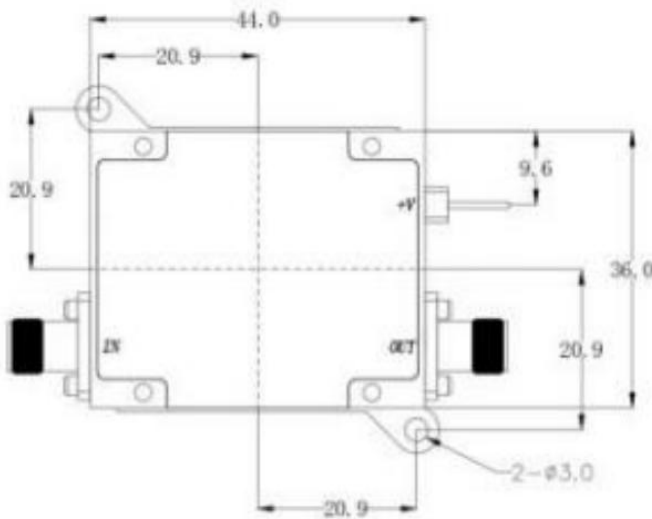
Parameter	Value
Supply Bias Voltage	+13V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

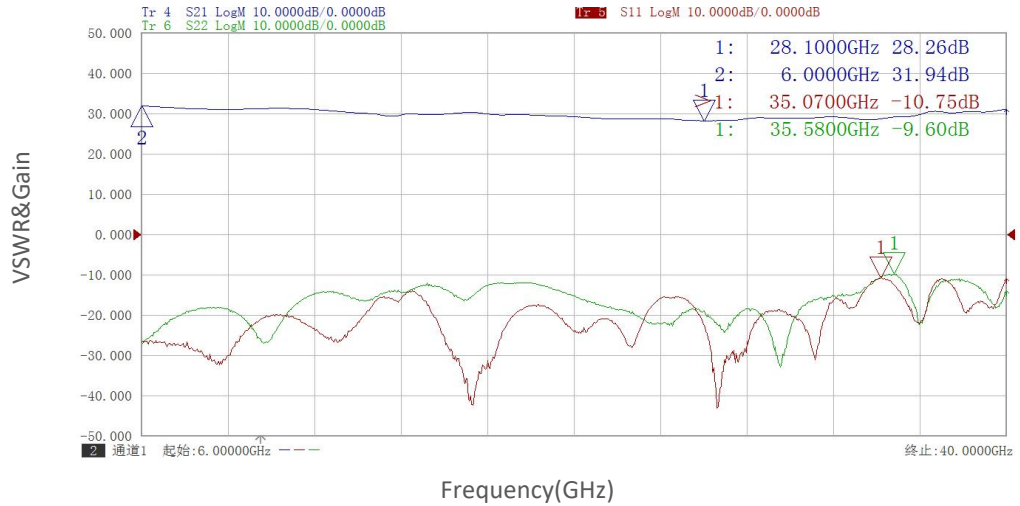
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

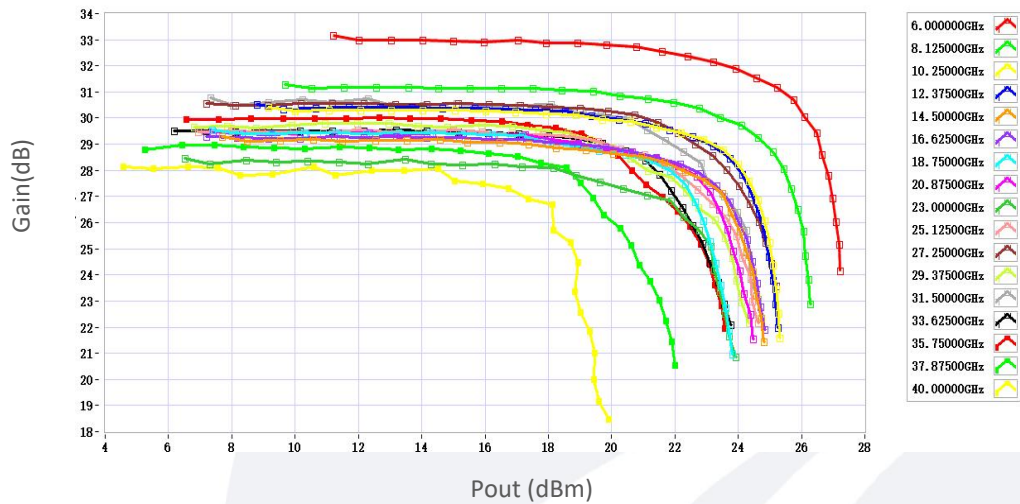
Part Number	Description	Revision
TLPA6G40G-28-20	Power amplifier 6-40GHz,Gain:28dB,Psat:22dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA6G40G-28-20-HS	Power amplifier 6-40GHz,Gain:28dB,Psat:22dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

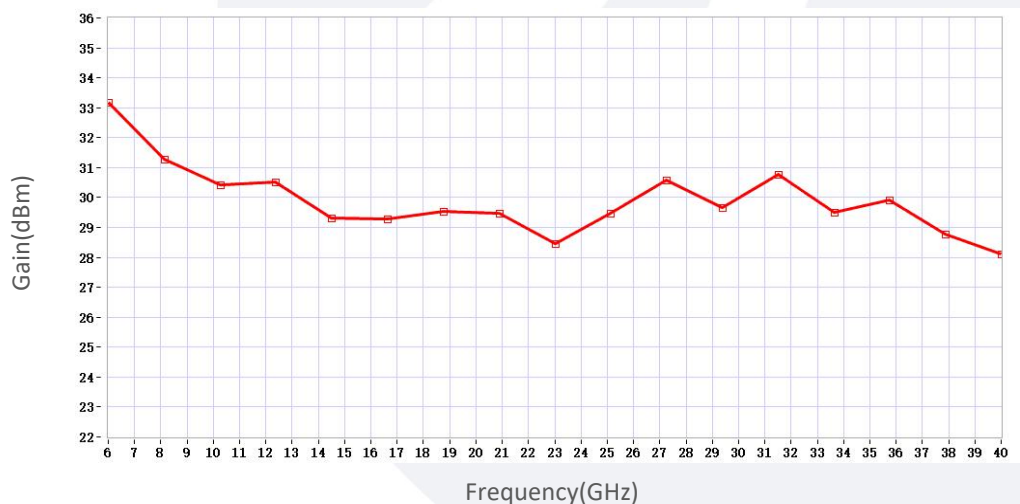
VSWR&Gain vs Frequency



Gain vs Output Power

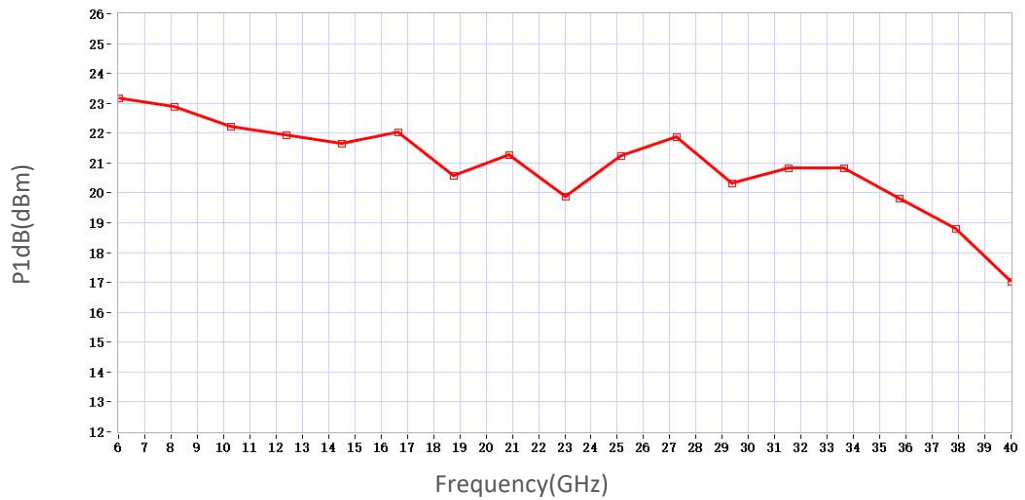


Gain vs Frequency



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

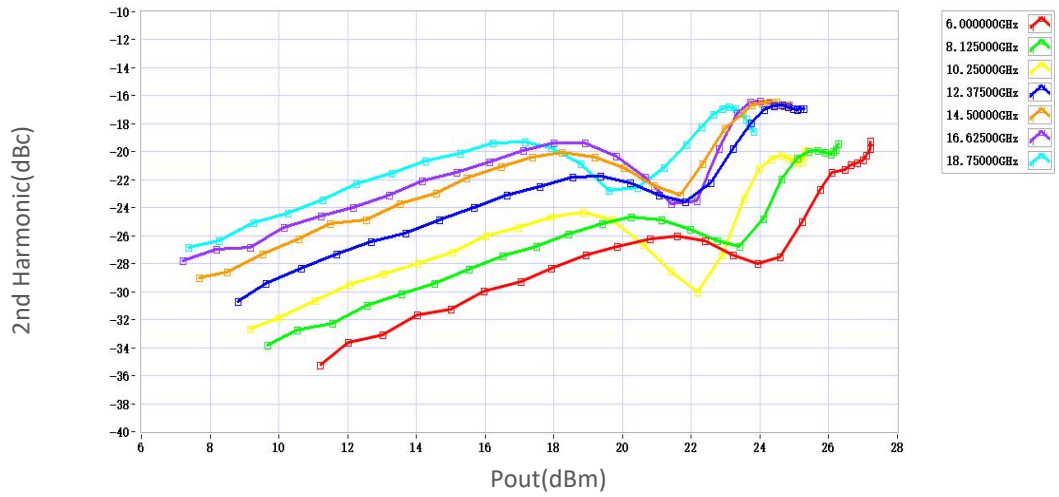


Psat vs Frequency



Typical Performance Data:

2nd Harmonic vs Output Power



3rd Harmonic vs Output Power

