

Model:TLA18G40G-36-35
Low Noise Amplifier
18-40GHz, NF:3.5dB, Gain:36dB,P1dB:15dBm
Feature:

- Ultra Wide Band: 18-40GHz
- Gain: 36dB Typ
- Noise Figure: 3.5dB Max
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	18-40			GHz
Gain		36		dB
Gain Flatness			±2.5	dB
Noise Figure		3	3.5	dB
Output P1dB		15		dBm
Spurious		-60		dBc
Input VSWR			2.2	:1
Output VSWR			2.2	:1
DC Voltage	8	12	15	V DC
DC Supply Current		80		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	44.8*29.2*11	mm
Weight	55	g

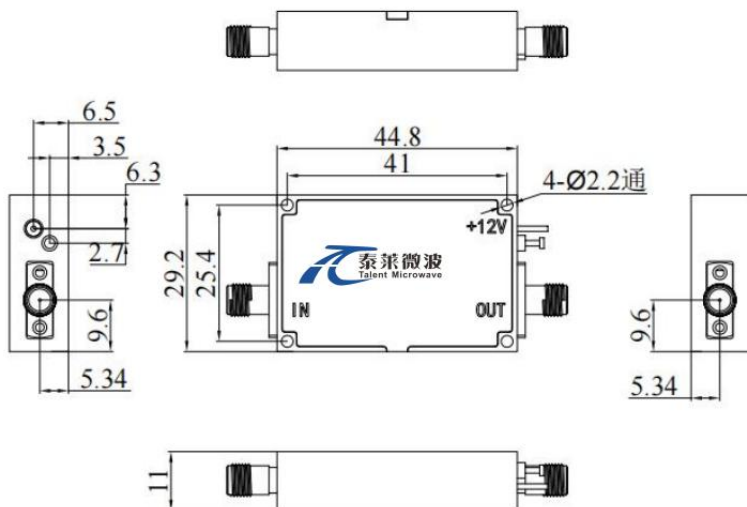
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V


**Available 220V System
Benchtop Amplifier**

Outline Drawing:

Unit: mm(inches)



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

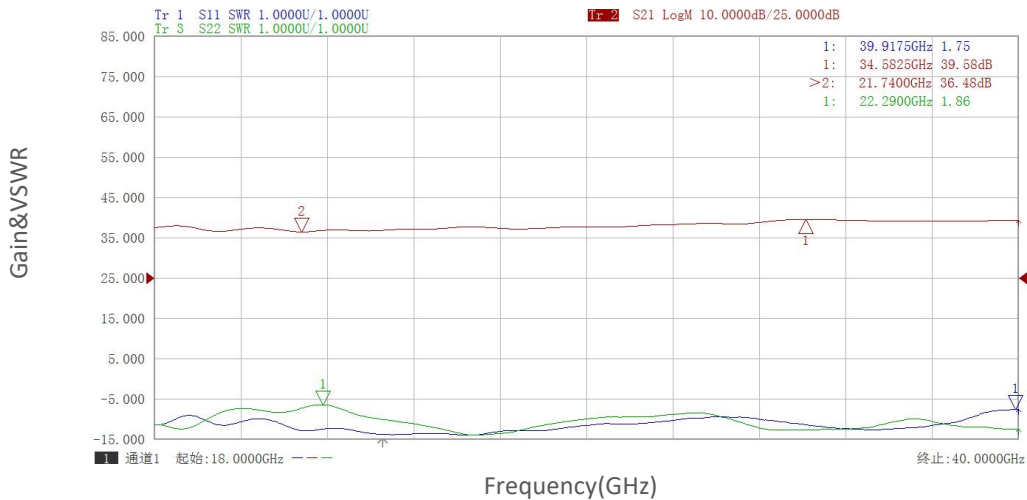
Parameter	Min	Typ	Max	单位 Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

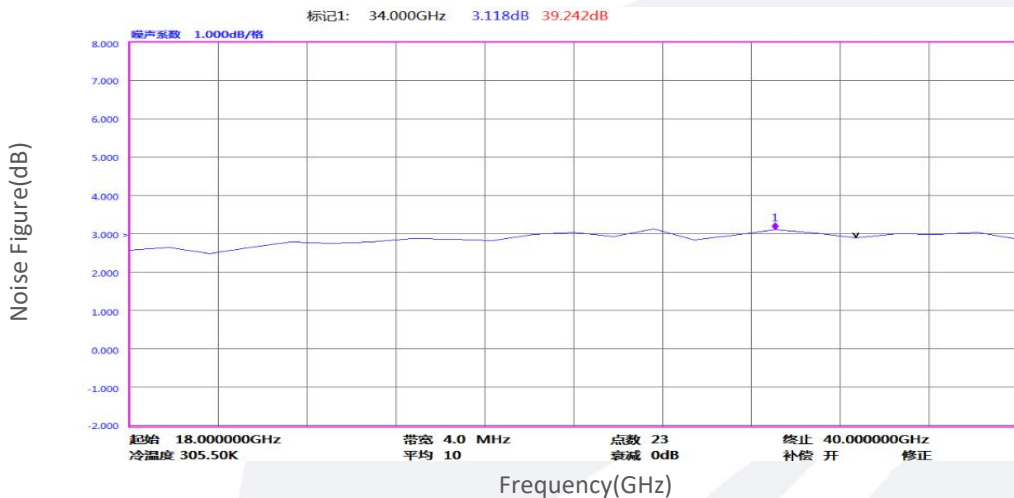
Part Number	Description	Revision
TLLA18G40G-36-35	Low Noise Amplifier, 18-40GHz, Noise Figure:3.5dB, Gain:36 dB,P1dB:15dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA18G40G-36-35-HS	Low Noise Amplifier, 18-40GHz, Noise Figure:3.5dB, Gain:36 dB,P1dB:15dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

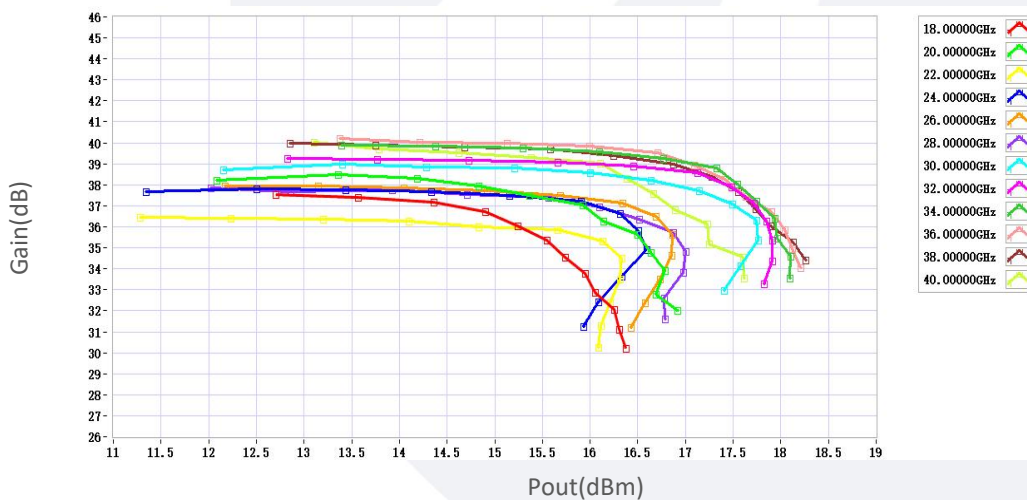
Gain&VSWR vs Frequency



Noise Figure vs Frequency

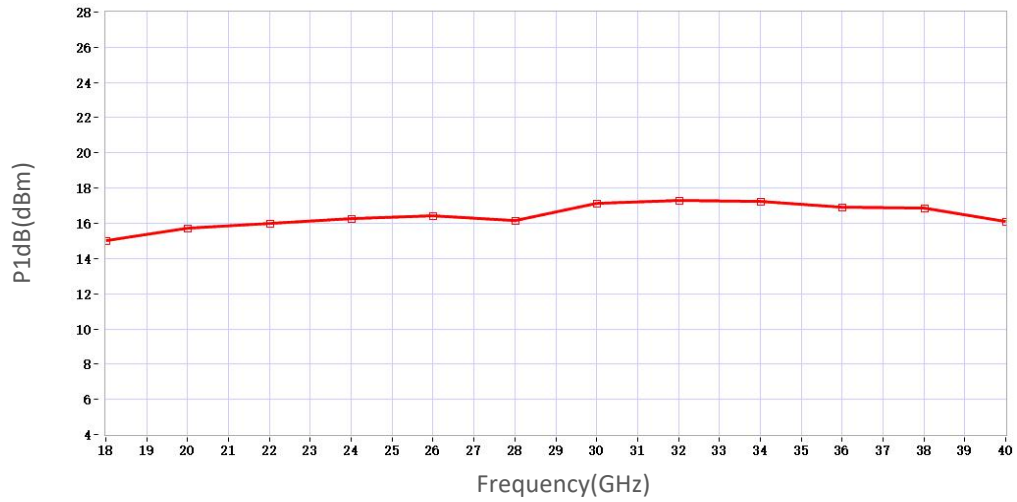


Gain vs Output Power



Typical Performance Data:

P1dB vs Frequency



P3dB vs Frequency

