

Model:TLLA0.5G40G-28-50

Low Noise Amplifier 0.5-40GHz, NF:5.0dB, Gain:28dB,P1dB:17dBm

Feature:

- Ultra Wide Band: 0.5-40GHz
- Gain: 28dB Typ
- Noise Figure: 5.0dB Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.5-40			GHz
Gain	25	28		dB
Gain Flatness		±2.0	±2.5	dB
Noise Figure		5.0		dB
Output P1dB		17		dBm
Output IP3		30		dBm
Input VSWR		1.8	2.5	:1
Output VSWR		1.8	2.5	:1
DC Voltage		12		V DC
DC Supply Current		400		mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	48*30*12(Without Heatsink) 92*30*27(With Heatsink 92*30*15)	mm
Weight	/	g

Absolute Maximum Ratings:

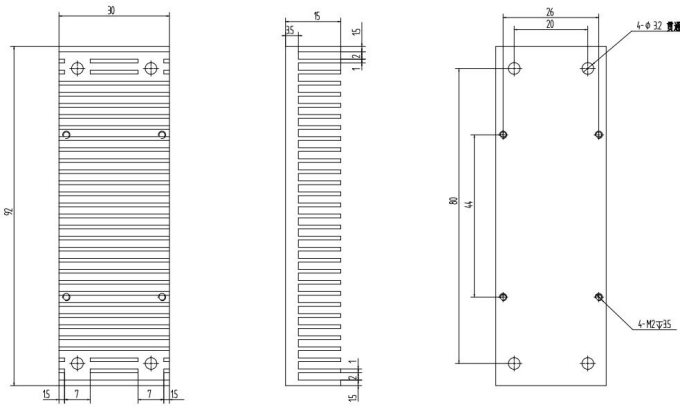
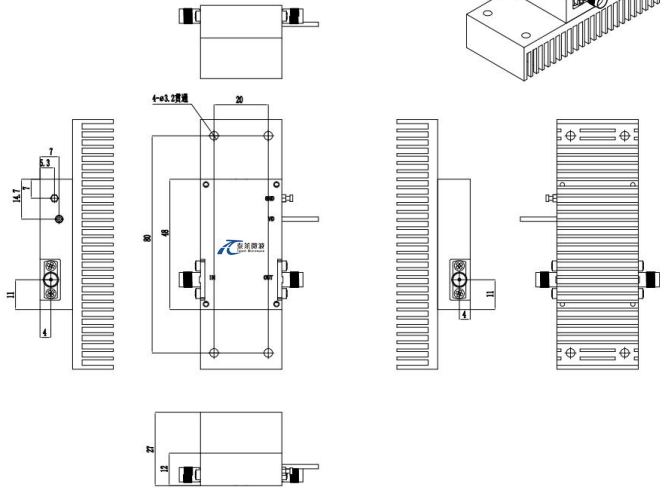
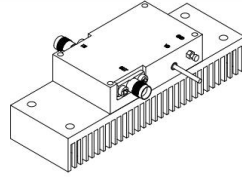
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	-5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



Environmental Conditions:

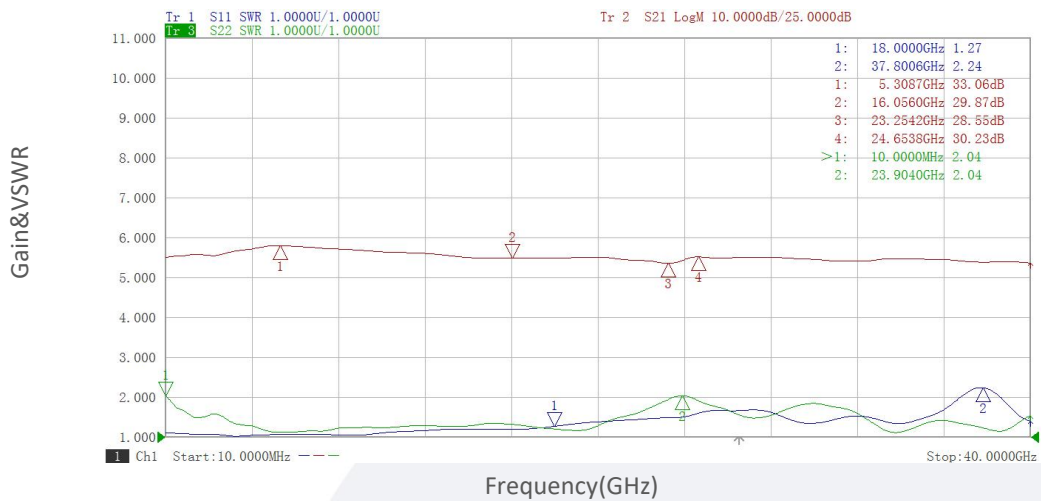
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msec half sin wave,3 axis both directions			

Ordering Information:

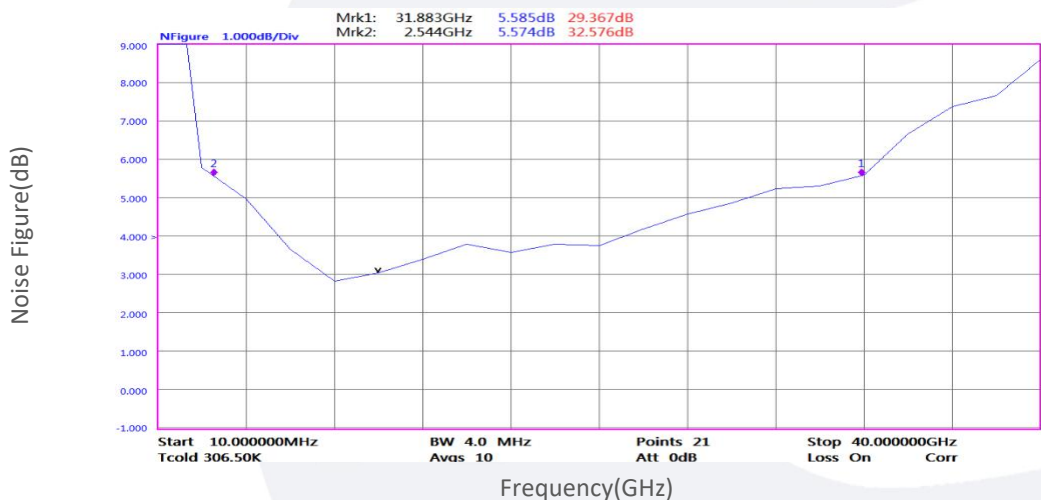
Part Number	Description	Revision
TLLA0.5G40G-28-50	Low Noise Amplifier, 0.5-40GHz, Noise Figure:5.0dB, Gain:28 dB,P1dB:17dBm,+12V DC,Without Heatsink	Rev.1.1
TLLA0.5G40G-28-50-HS	Low Noise Amplifier, 0.5-40GHz, Noise Figure:5.0dB, Gain:28 dB,P1dB:17dBm,+12V DC,With Heatsink	Rev.1.1

Typical Performance Data:

Gain&VSWR vs Frequency

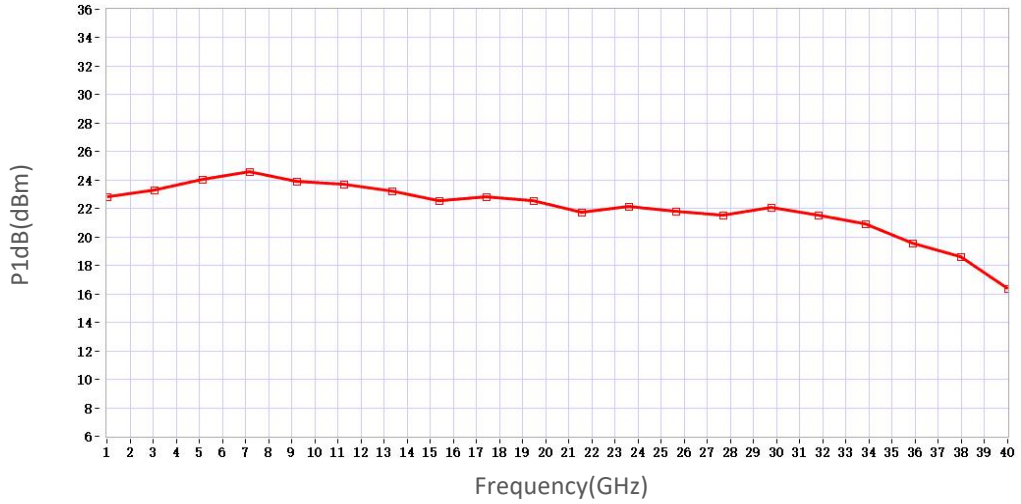


Noise Figure vs Frequency



Typical Performance Data:

P1dB vs Frequency



Gain vs Output Power

