

Model:TLPA0.1G26G-15-23

Power Amplifier 0.1-26GHz,Gain:15dB,P1dB:23dBm

Feature:

- Ultra Wide Band: 0.1-26GHz
- Gain:15dB Typ
- P1dB Output Power:23dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	0.1-26			GHz
Gain		15		dB
Gain Flatness		±1.5		dB
Output P1dB		23		dBm
Noise Figure		5		dB
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage	+10	+12	+15	V DC
DC Supply Current		200		mA
Impedance	50			Ohms

Mechanical Specifications:

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

Absolute Maximum Ratings:

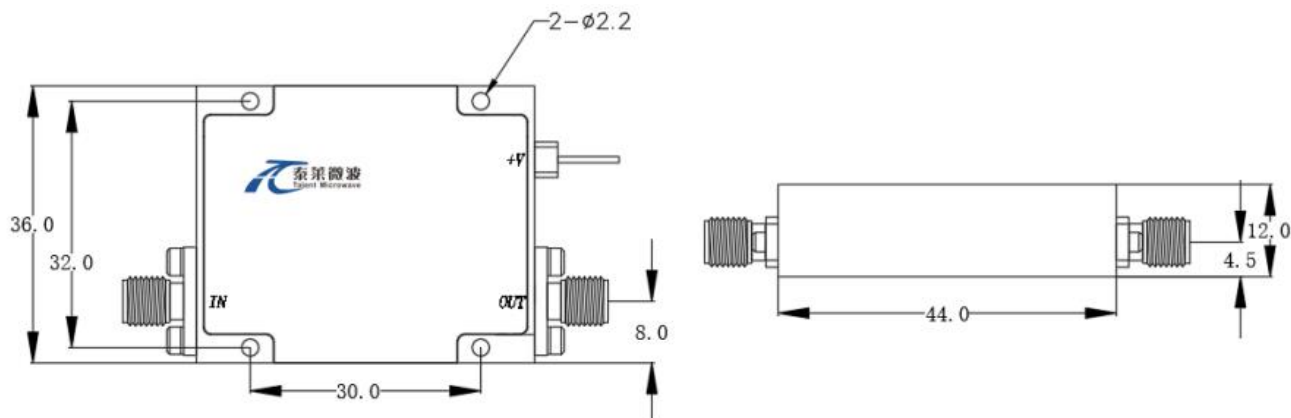
Parameter	Value
Supply Bias Voltage	+15V
RF Input Power	15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

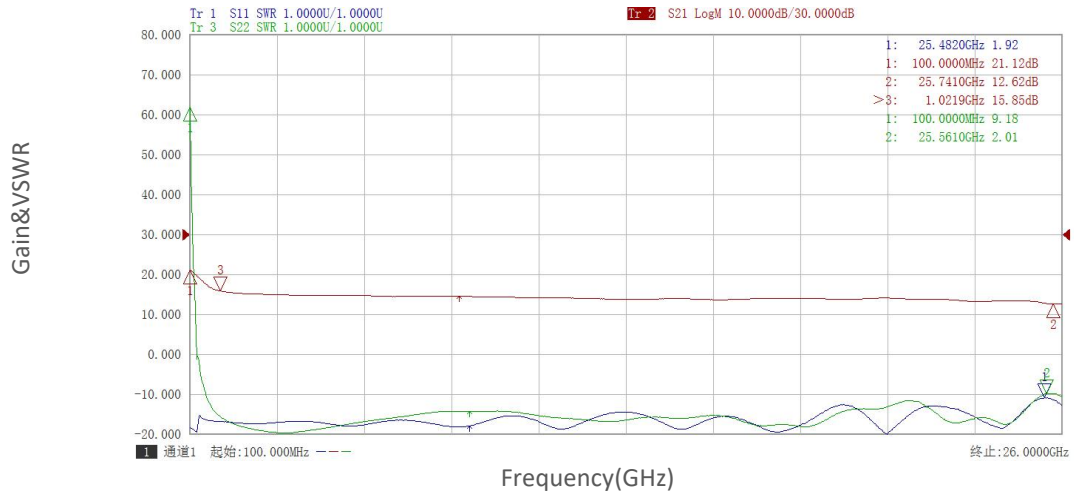
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

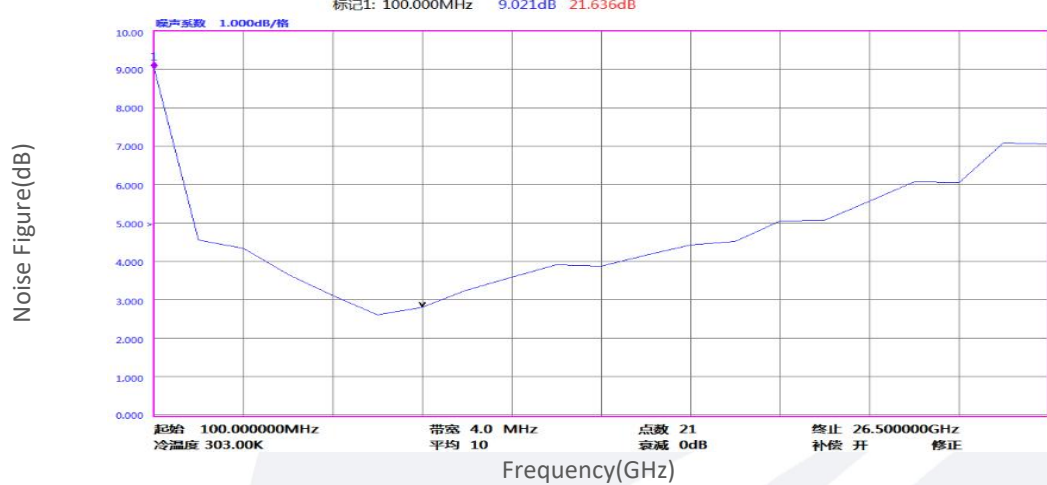
Part Number	Description	Revision
TLPA0.1G26G-15-23	Power amplifier 0.1-26GHz,Gain:15dB,P1dB:23dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA0.1G26G-15-23-HS	Power amplifier 0.1-26GHz,Gain:15dB,P1dB:23dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

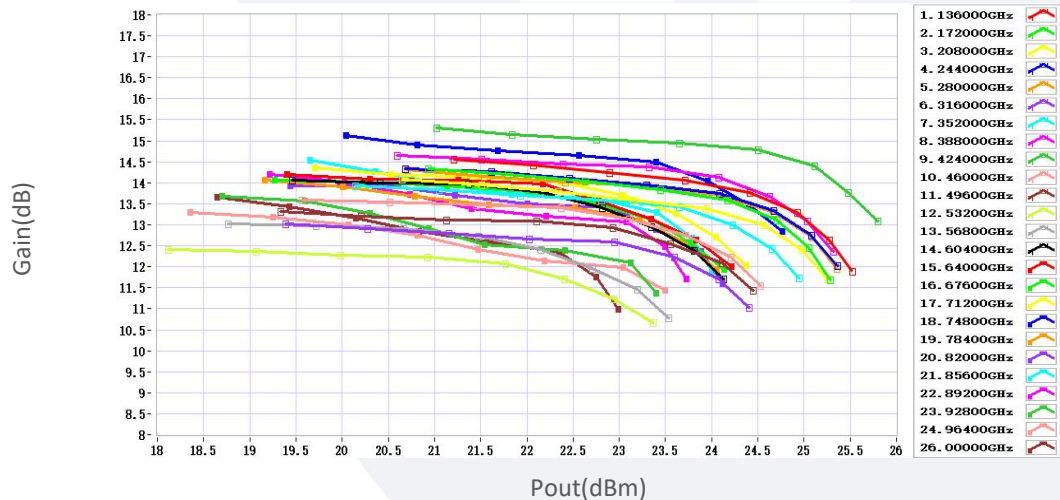
Gain&VSWR vs Frequency



Noise Figure vs Frequency



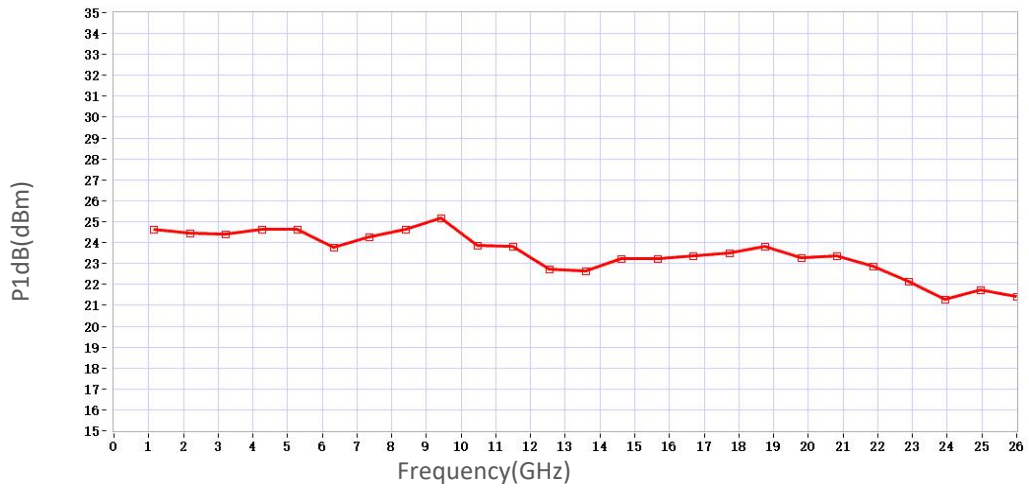
Gain vs Output Power



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

P1dB vs Frequency



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