

Model:TLPA18G26.5G-18-30

Power Amplifier

18-26.5GHz,Gain:18dB,P1dB:30dBm

Feature:

- Ultra Wide Band:1 8-26.5GHz
- Gain:18dB Min
- P1dB Output Power:30dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	18-26.5			GHz
Gain	18	21		dB
Gain Flatness		±2	±2.5	dB
Output P1dB	30	31		dBm
Output Psat		32		dBm
Input VSWR		2	2.2	:1
Output VSWR		2	2.2	:1
DC Voltage		+12		V DC
DC Supply Current	500			mA
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	50*25.4*8	mm
Weight	200	g

Absolute Maximum Ratings:

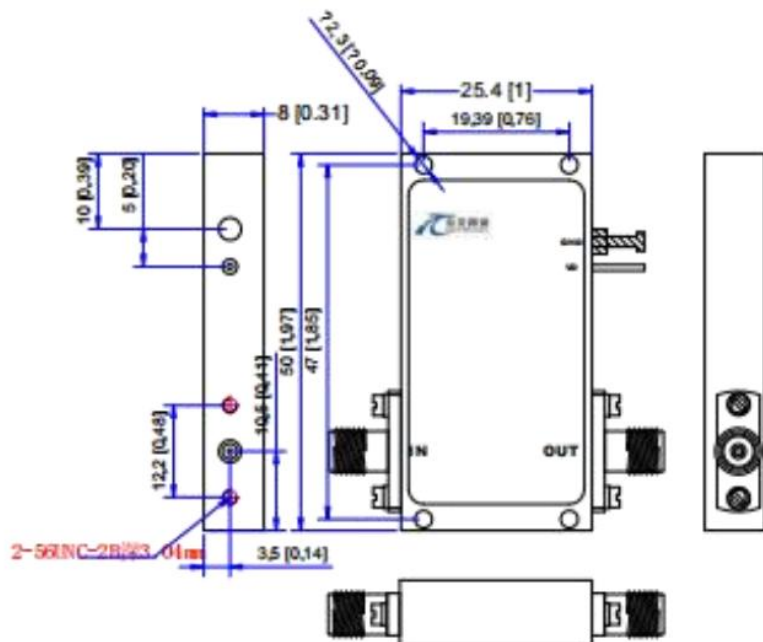
Parameter	Value
Supply Bias Voltage	+12V
RF Input Power	15dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



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

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

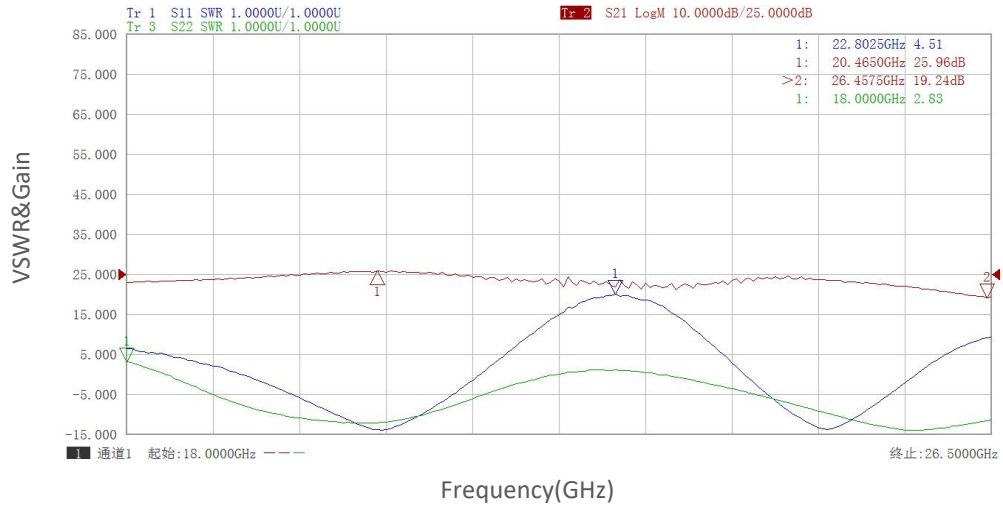
Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+85	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

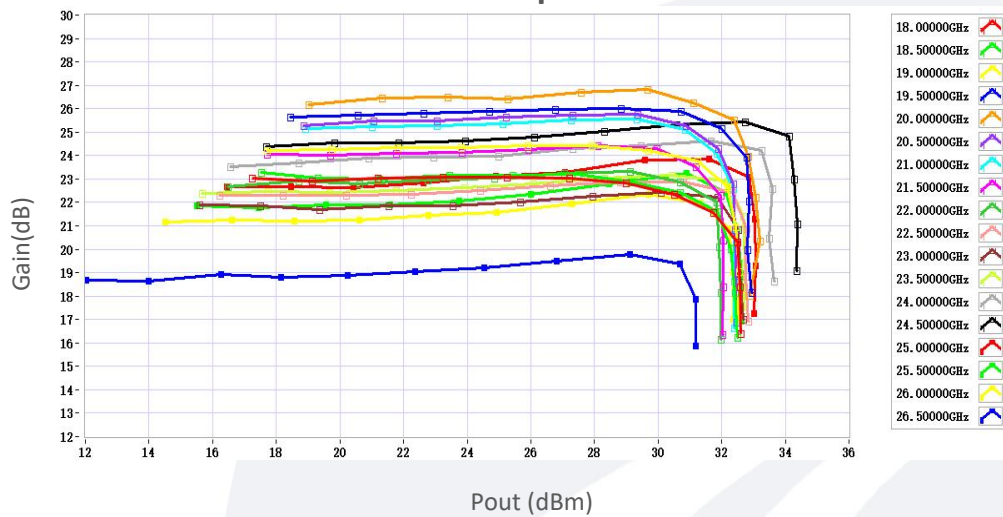
Part Number	Description	Revision
TLPA18G26.5G-18-30	Power amplifier 18-26.5GHz,Gain:18dB,Psat:32dBm,+12V DC,Without Heatsink.	Rev.1.1
TLPA18G26.5G-18-30-HS	Power amplifier 18-26.5GHz,Gain:18dB,Psat:32dBm,+12V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

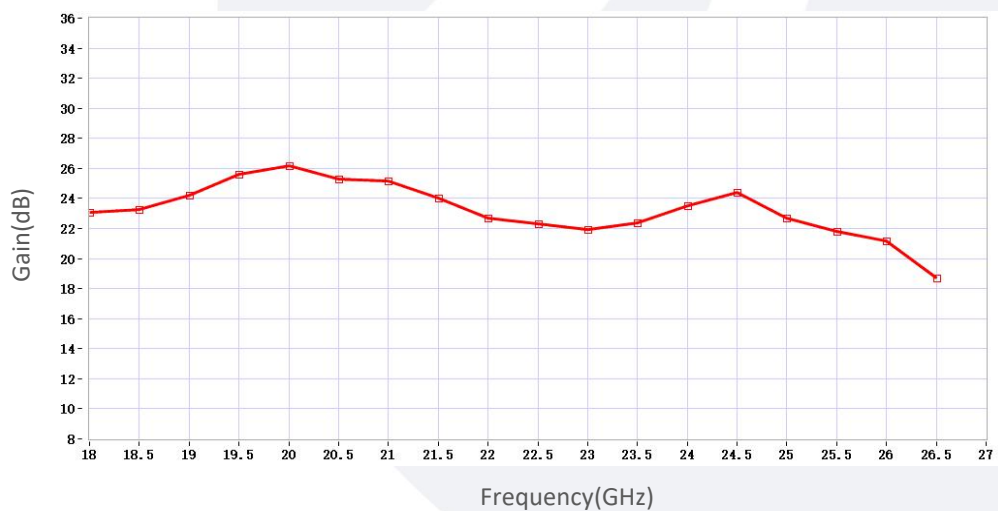
VSWR&Gain vs Frequency



Gain vs Output Power



Gain vs Frequency



Typical Performance Data:

P1dB vs Frequency

