

Model:TLPA18G26.5G-35-35

Power Amplifier

18-26.5GHz,Gain:35dB,P1dB:35dBm

Feature:

- Ultra Wide Band:18-26.5GHz
- Gain:35dB Min
- P1dB Output Power:35dBm 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	35			dB
Gain Flatness			±2	dB
Output P1dB	35			dBm
Output Psat	40	41		dBm
Spurious			-50	dBc
Harmonics			-20	dBc
Input VSWR			2	:1
DC Voltage	+18	+20	+22	V DC
Power Consumption			70	W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	Solder Pin	
Size	150*90*20	mm
Weight	500	g

Absolute Maximum Ratings:

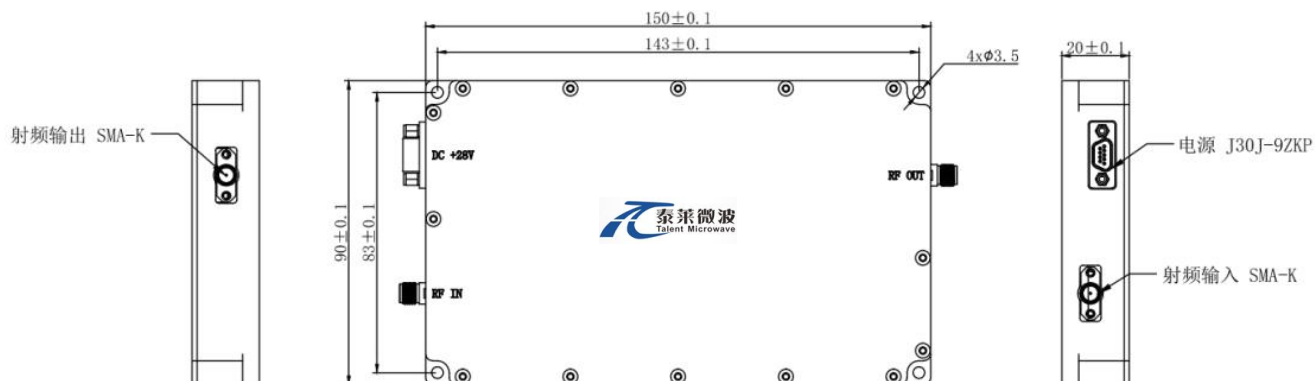
Parameter	Value
Supply Bias Voltage	1-5:+20V 6-9:GND
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



J30J-9ZKP	
Pin	Function
1-5	+22V
6-9	GND

***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

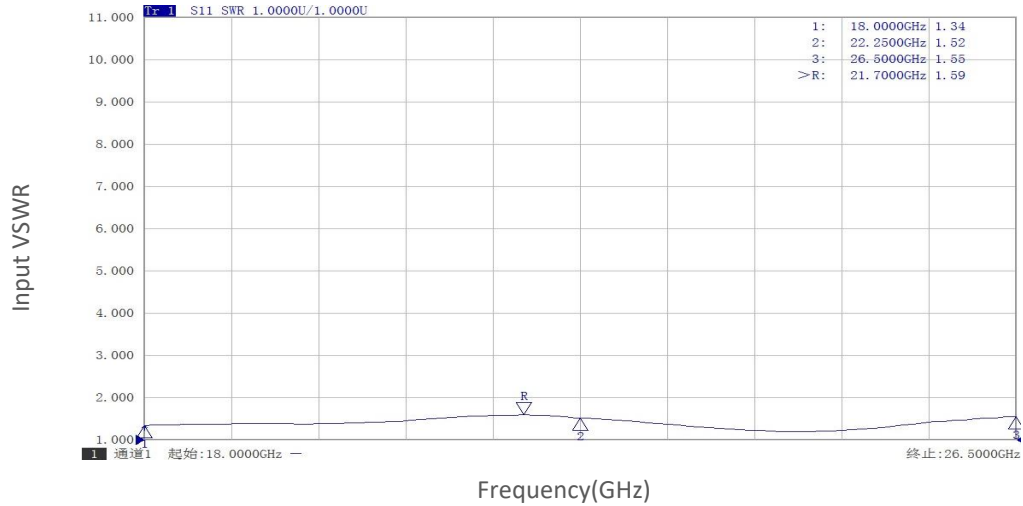
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+40	°C
Non-operating Temperature	-55		+125	°C
Relative humidity	100%RH at 35°C, 95%RH at 40°C			%
Altitude	50000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

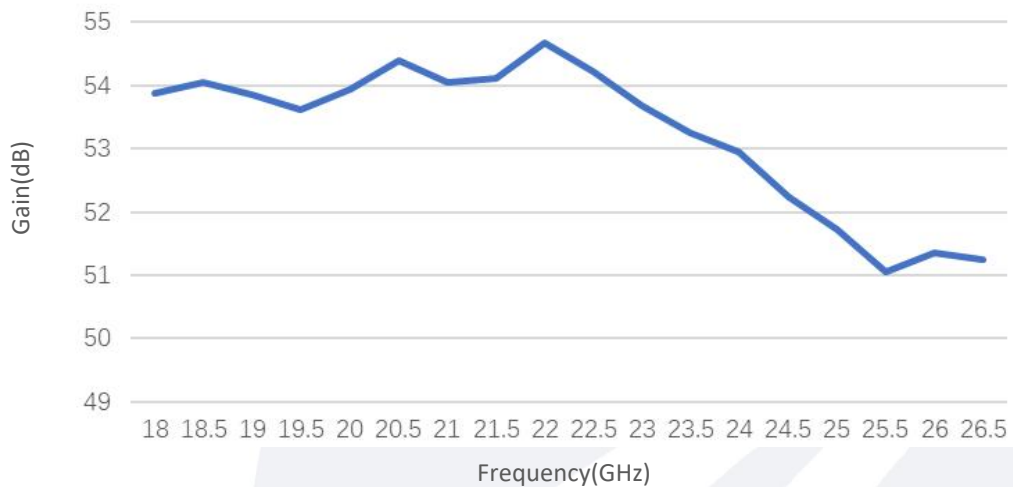
Part Number	Description	Revision
TLPA18G26.5G-35-35	Power amplifier 18-26.5GHz,Gain 35dB,P1dB:35dBm,+22V DC,Without Heatsink.	Rev.1.1
TLPA18G26.5G-35-35-HS	Power amplifier 18-26.5GHz,Gain 35dB,P1dB:35dBm,+22V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

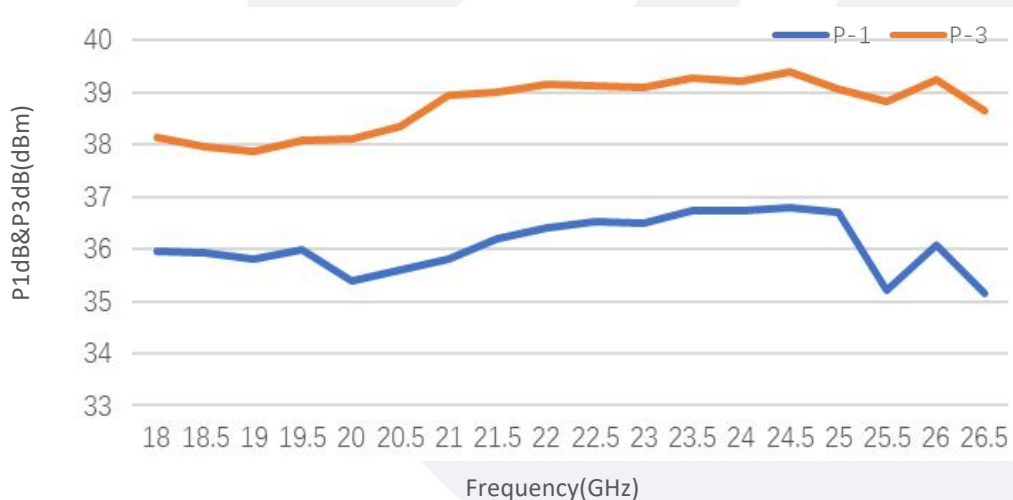
Input VSWR vs Frequency



Gain vs Frequency

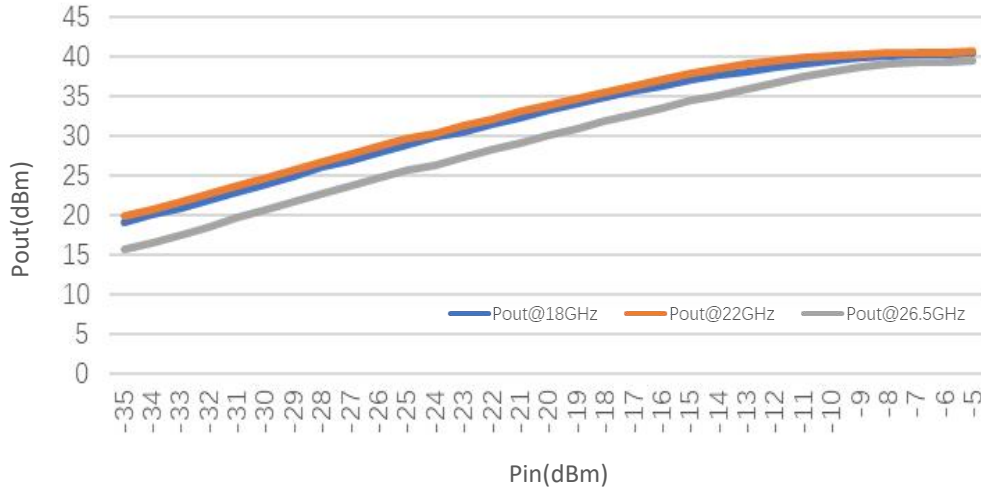


P1dB&P3dB vs Frequency

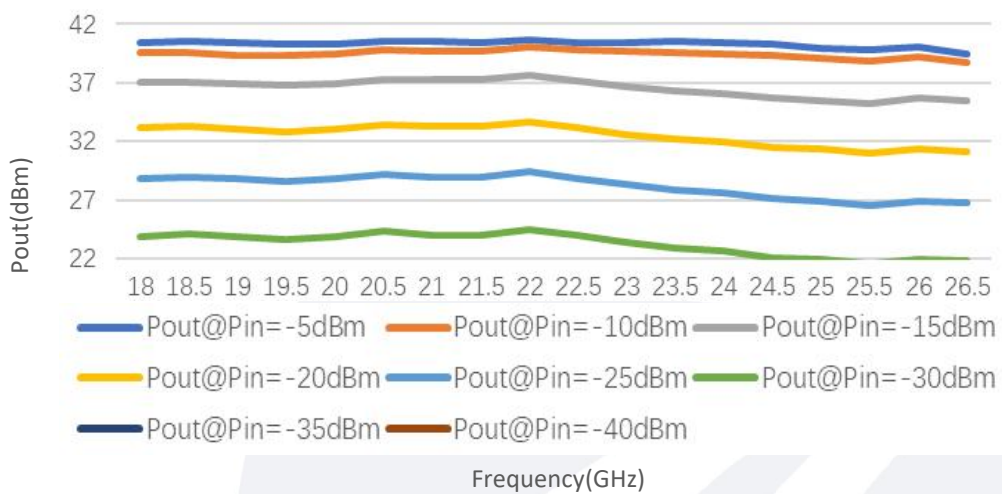


Typical Performance Data:

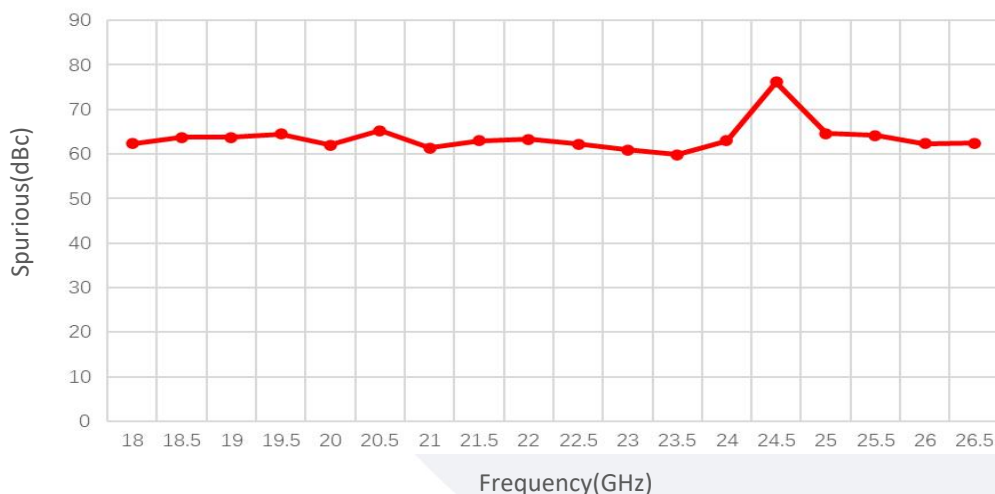
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



Typical Performance Data:

2nd Harmonic vs Frequency

