

Model:TLPA2G18G-40-37

Power Amplifier

2-18GHz, Gain:40dB, Psat:37dBm

Feature:

- Ultra Wide Band:2-18GHz
- Gain:40dB Min
- Psat Output Power:37dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-18			GHz
Gain	40			dB
Gain Flatness		±3		dB
Output Psat	37			dBm
Spurious			-60	dBc
Input VSWR			2	:1
DC Voltage		+28	+29	V DC
Power Consumption			80	W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Power Interface	J30J-9ZKP	
Size	200*100*30	mm
Weight	1	Kg

Absolute Maximum Ratings:

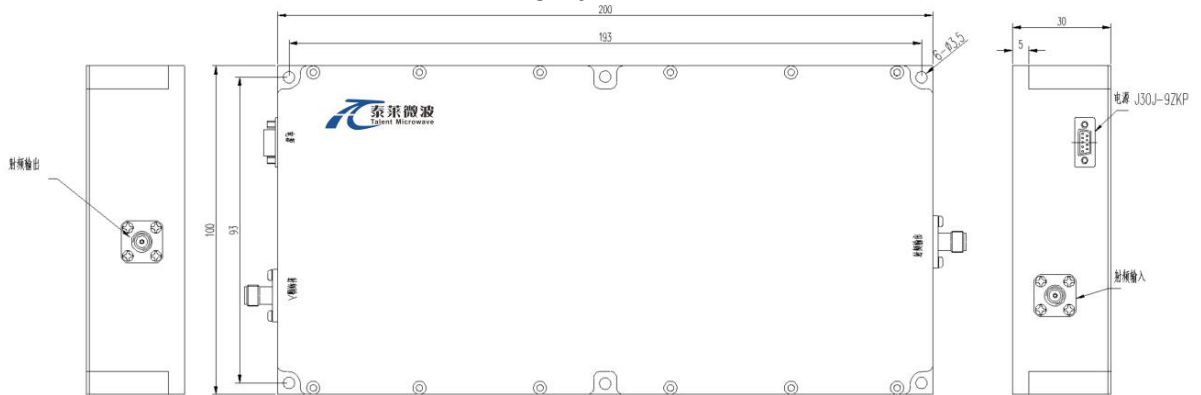
Parameter	Value
Supply Bias Voltage	+29V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



J30J-9ZKP Define

Pin	Function
1	TTL Amplifier Disable: TTL Logic Low
2-5	+28V
6-9	GND

***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

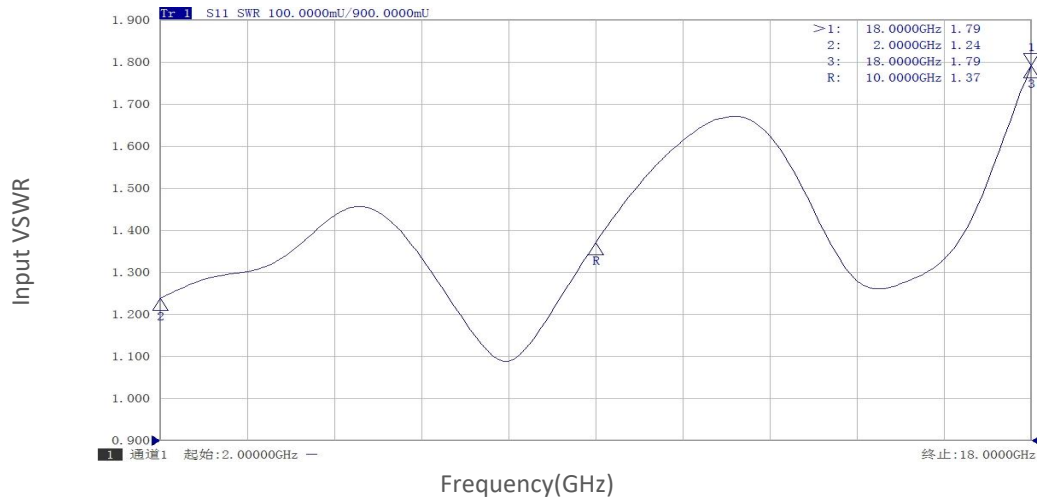
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

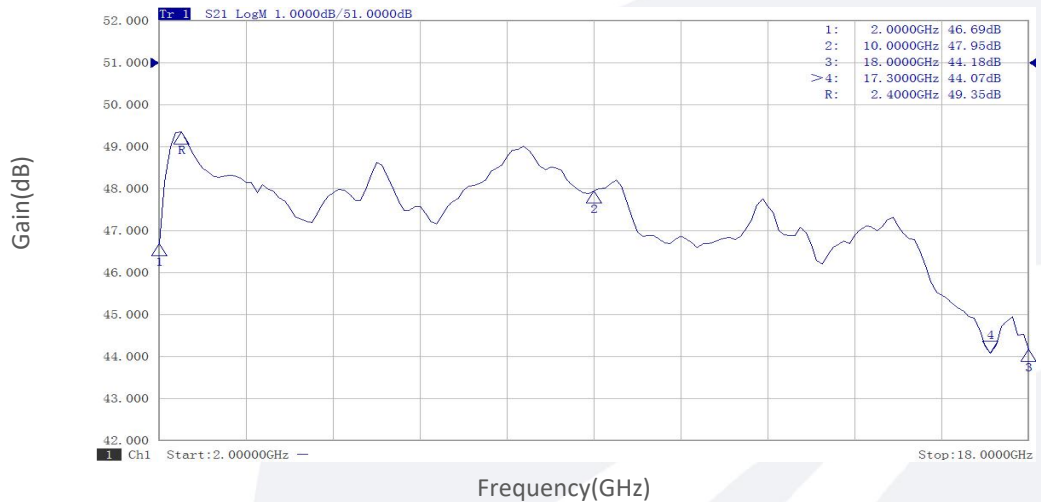
Part Number	Description	Revision
TLPA2G18G-40-37	Power amplifier 2-18GHz,Gain:40dB,Psat:37dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA2G18G-40-37-HS	Power amplifier 2-18GHz,Gain:40dB,Psat:37dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

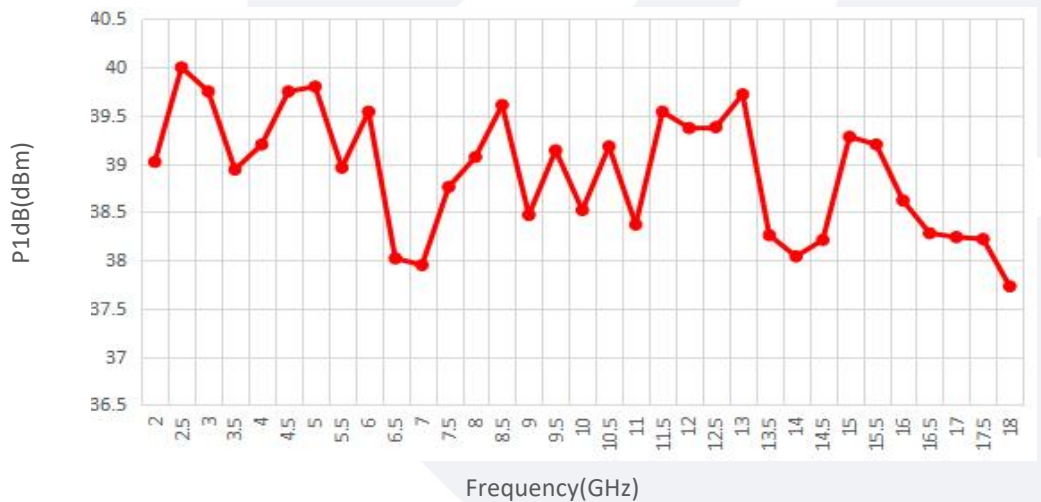
Input VSWR vs Frequency



Gain vs Frequency

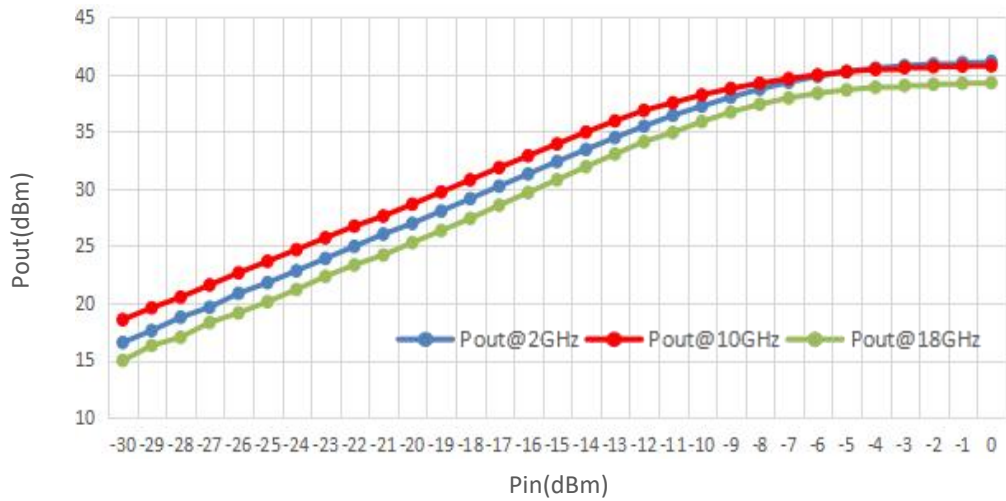


P1dB vs Frequency

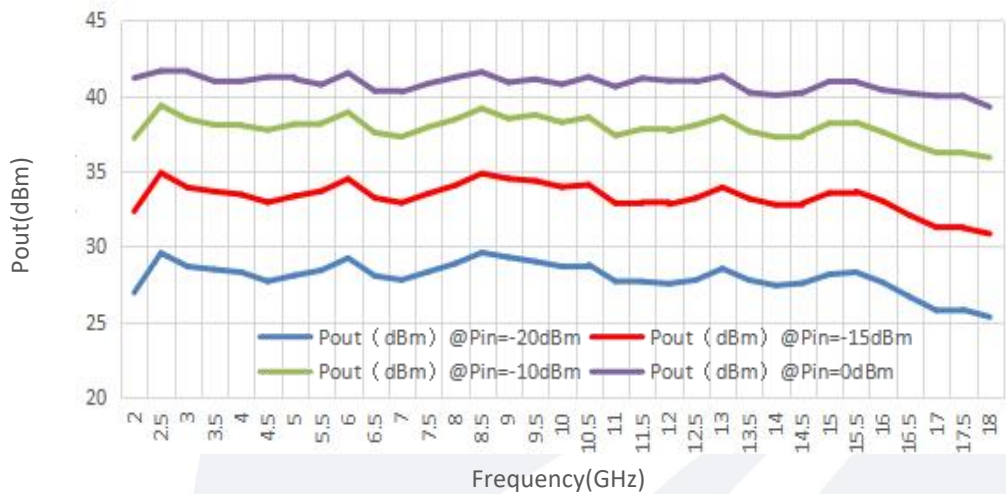


Typical Performance Data:

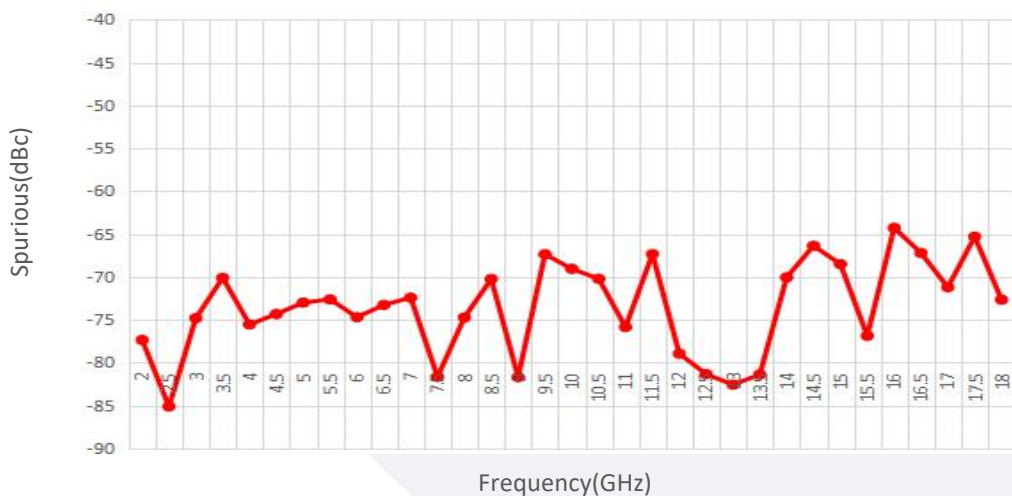
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



Typical Performance Data:

Harmonic vs Frequency

