

Model:TLPA6G18G-40-40

Power Amplifier 6-18GHz,Gain:40dB,Psat:40dBm

Feature:

- Ultra Wide Band: 6-18GHz
- Gain:40dB Min
- Psat Output Power:40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	40			dB
Output Psat	40	41		dBm
Spurious@Pout=40dBm			-60	dBc
Harmonics@Pout=40dBm			-10	dBc
Input VSWR			2	:1
DC Voltage		28		V DC
Power Consumption	100@Max			W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	J30J-9ZKP	
Size	150*90*20	mm
Weight	500	g

Absolute Maximum Ratings:

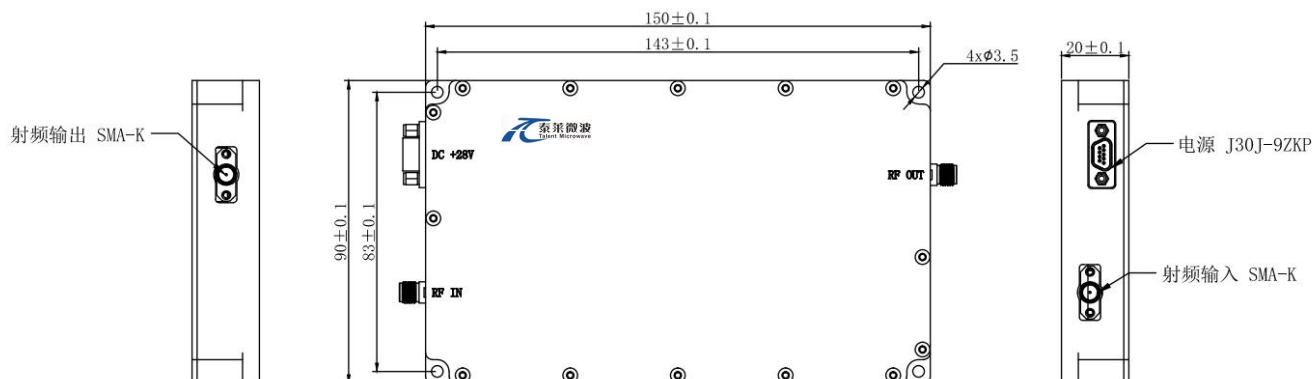
Parameter	Value
Supply Bias Voltage	+28V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

J30J-9ZKP	
Pin	Function
1-5	+28V
6-9	GND



Environmental Conditions:

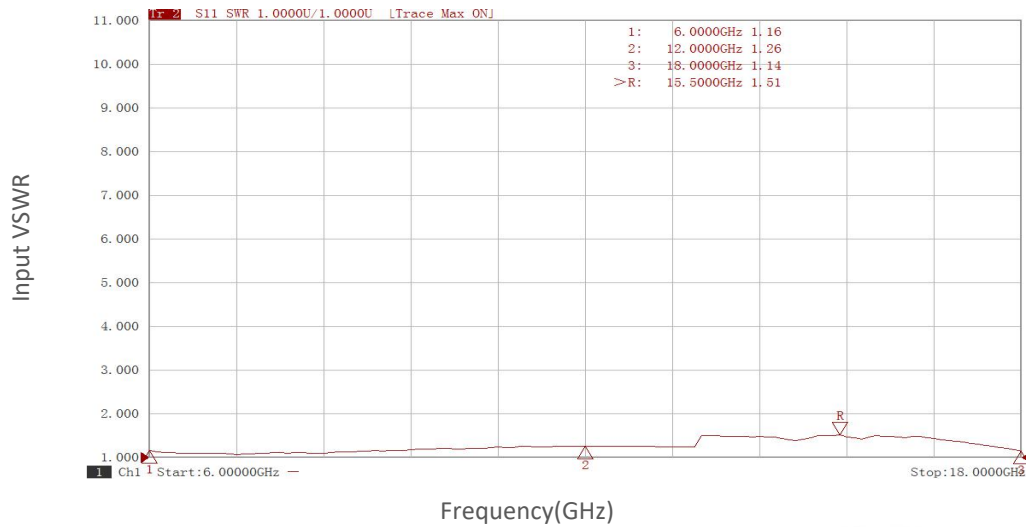
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+40	°C
Non-operating Temperature	-20		+50	°C
Relative humidity		95		%
Altitude		30,000		feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

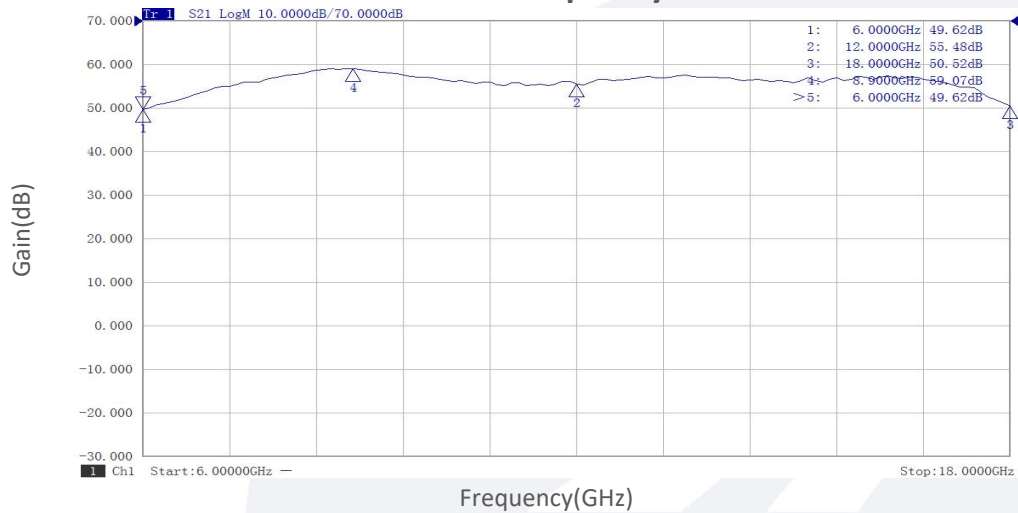
Part Number	Description	Revision
TLPA6G18G-40	Power amplifier 6-18GHz,Gain:40dB,Psat:40dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA6G18G-40-40-HS	Power amplifier 6-18GHz,Gain:40dB,Psat:40dBm,+28V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

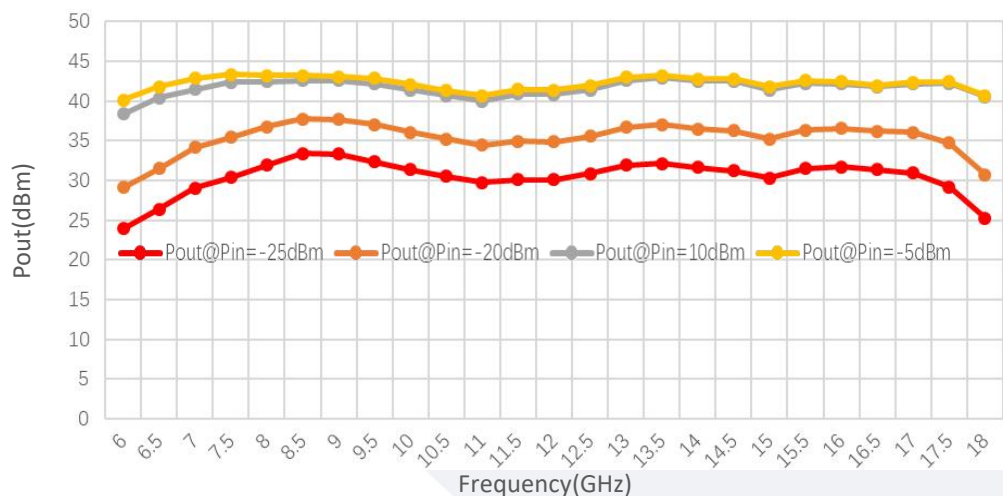
Input VSWR vs Frequency



Gain vs Frequency

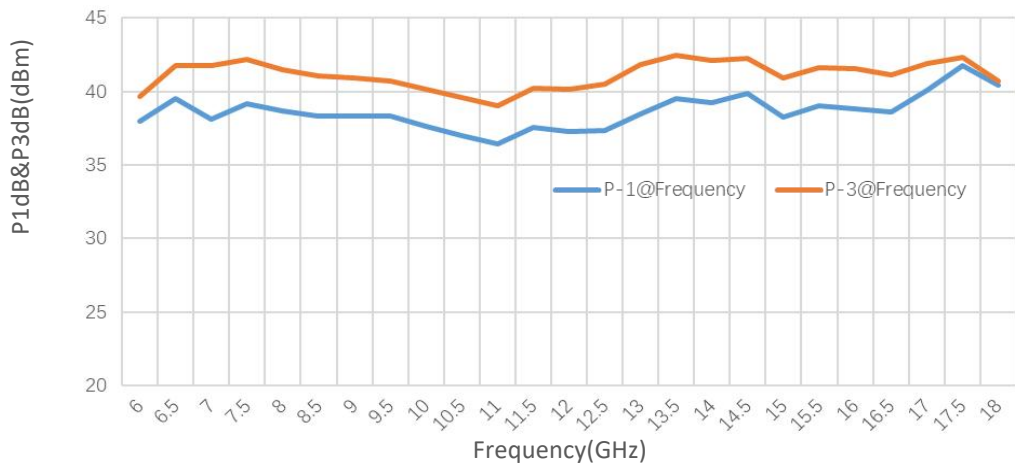


Pout@Equal_Pin

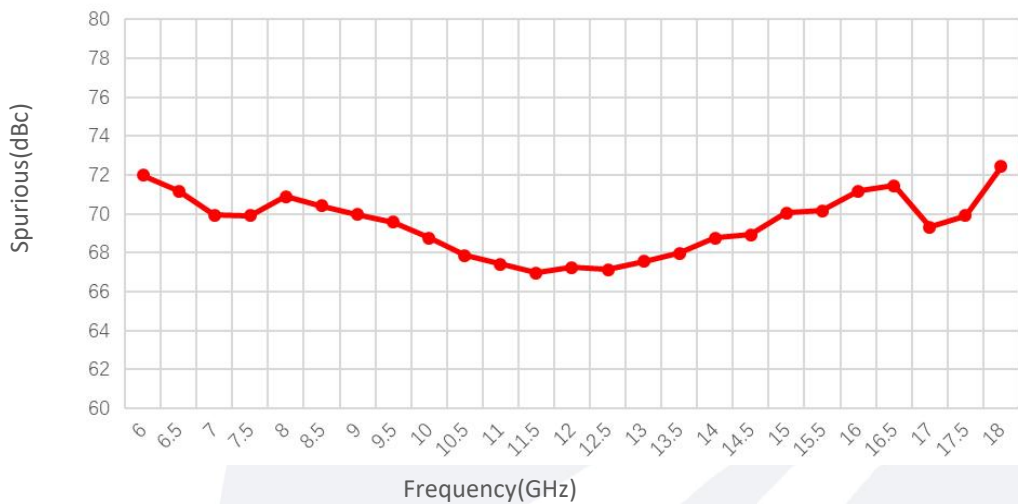


Typical Performance Data:

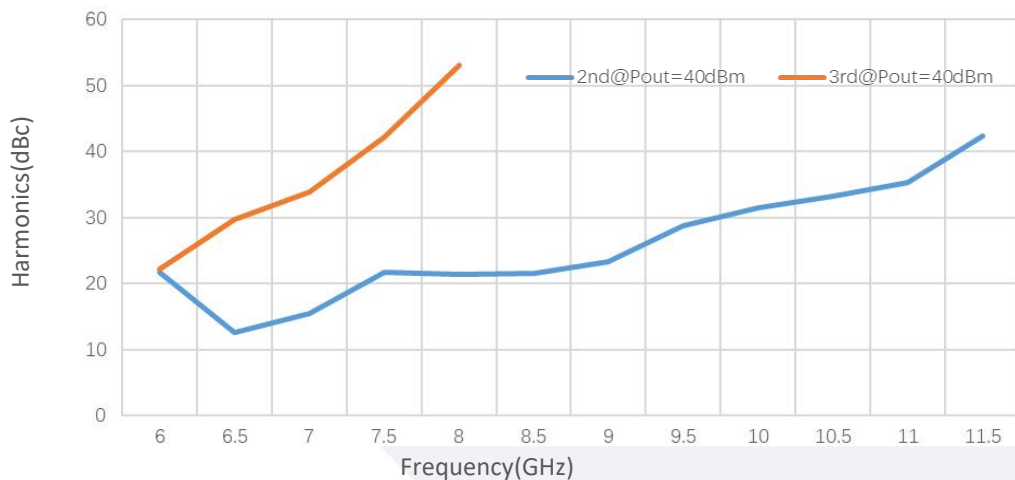
P1dB&P3dB vs Frequency



Spurious@Pout=40dBm



Harmonics@Pout=40dBm



Typical Performance Data:

