

Model:TLPA6G26.5G-36-36

Power Amplifier

6-26.5GHz,Gain:36dB,Psat:36dBm

Feature:

- Ultra Wide Band: 6-26.5GHz
- Gain:36dB Min
- Psat Output Power:36dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-26.5			GHz
Gain	36			dB
Gain Flatness		±5.5		dB
Output P1dB	27			dBm
Output Psat	36			dBm
Spurious@Pout=36dBm			-55	dBc
Harmonics@Pout=36dBm		-15	-10	dBc
Input VSWR			2	:1
DC Voltage		+18		V DC
DC Supply Current		8		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Bias	J30J-21ZKP	
Size	200*100*25.5	mm
Weight	2	Kg

Absolute Maximum Ratings:

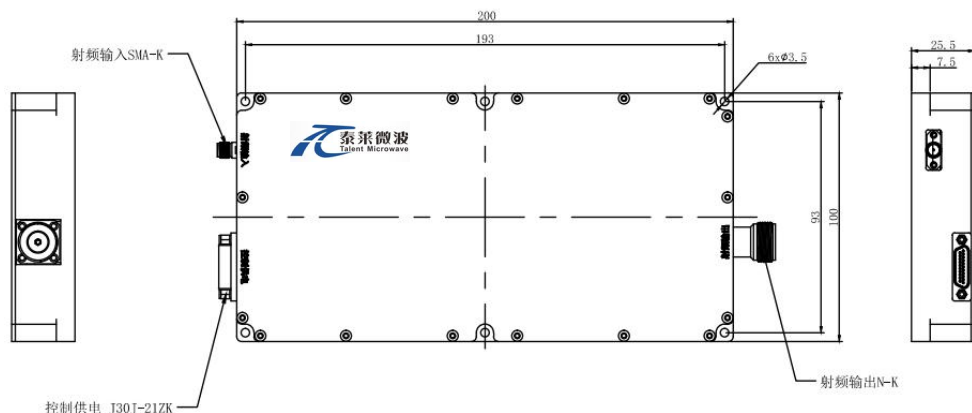
Parameter	Value
Supply Bias Voltage	+18V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



J30J-21ZKP	
Pin	Function
Pin1-11	+18V
Pin12-21	GND

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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

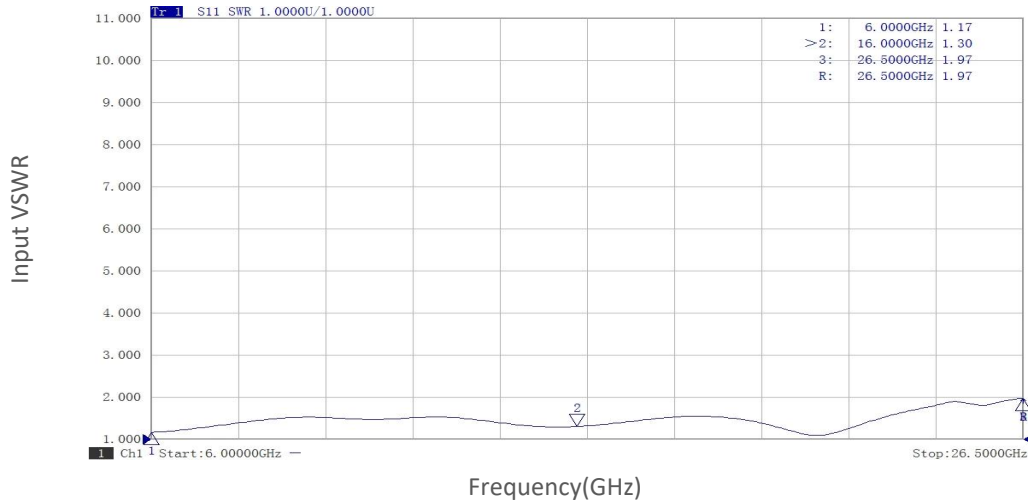
Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+60	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

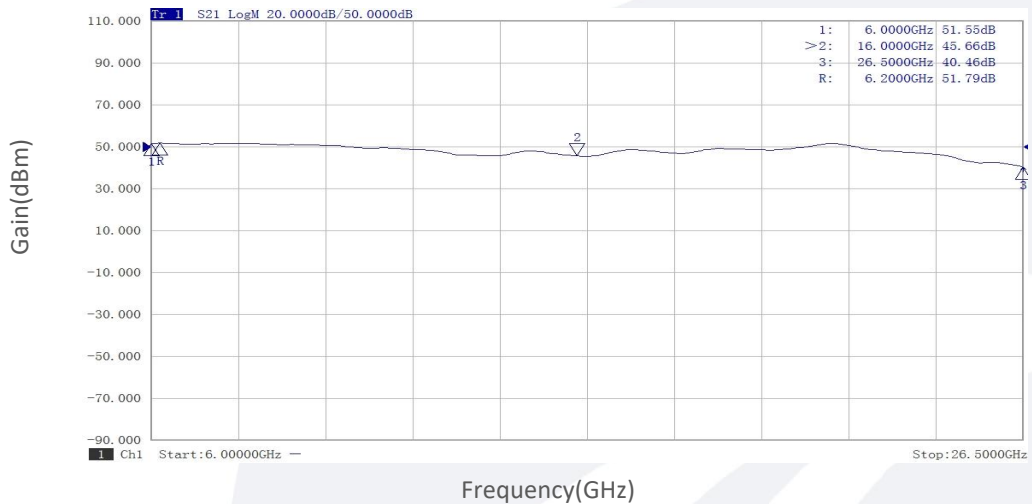
Part Number	Description	Revision
TLPA6G26.5G-36-36	Power amplifier 6-26.5GHz,Gain:36dB,Psat:36dBm,+18V DC,Without Heatsink.	Rev.1.1
TLPA6G26.5G-36-36-HS	Power amplifier 6-26.5GHz,Gain:36dB,Psat:36dBm,+18V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

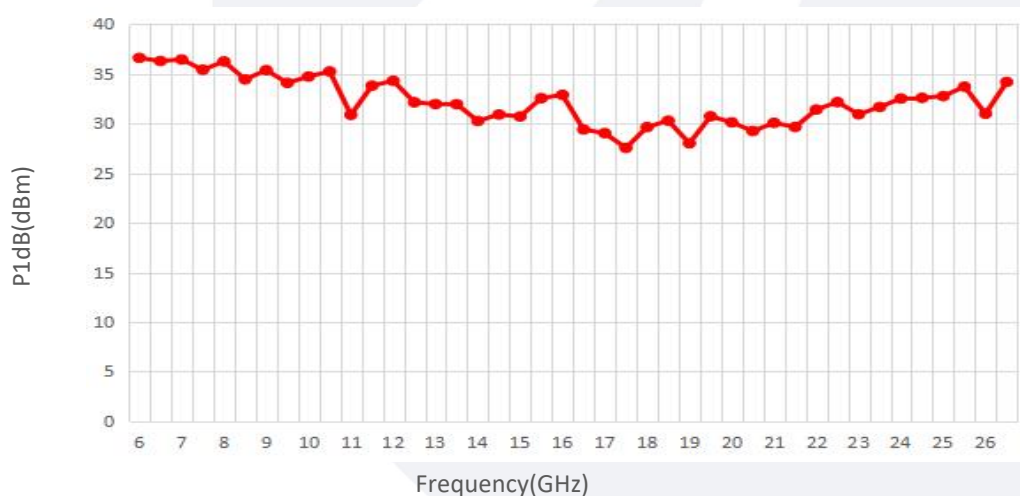
Input VSWR vs Frequency



Gain vs Frequency

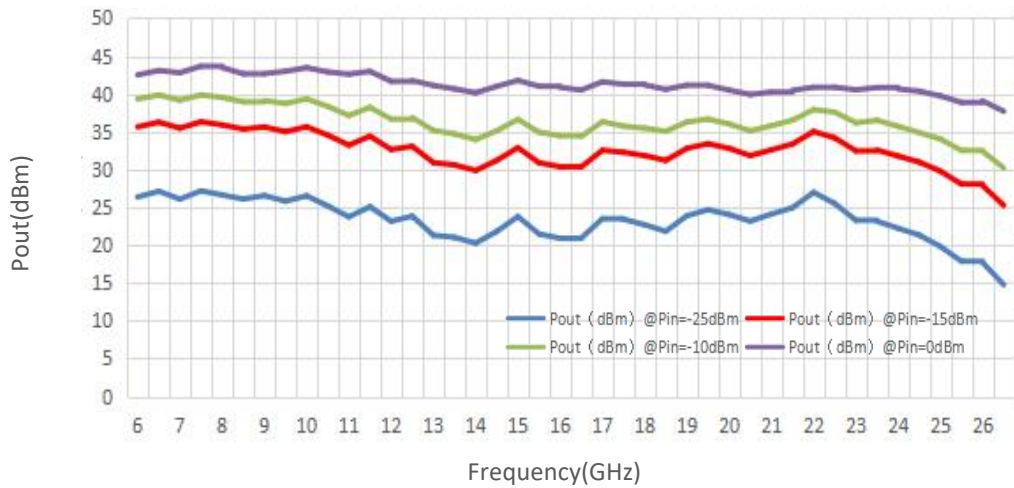


P1dB vs Frequency

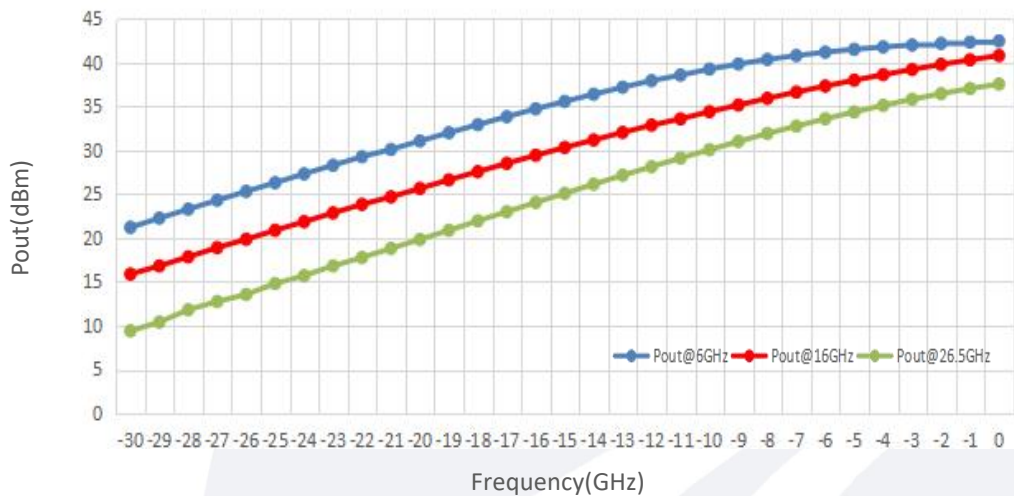


Typical Performance Data:

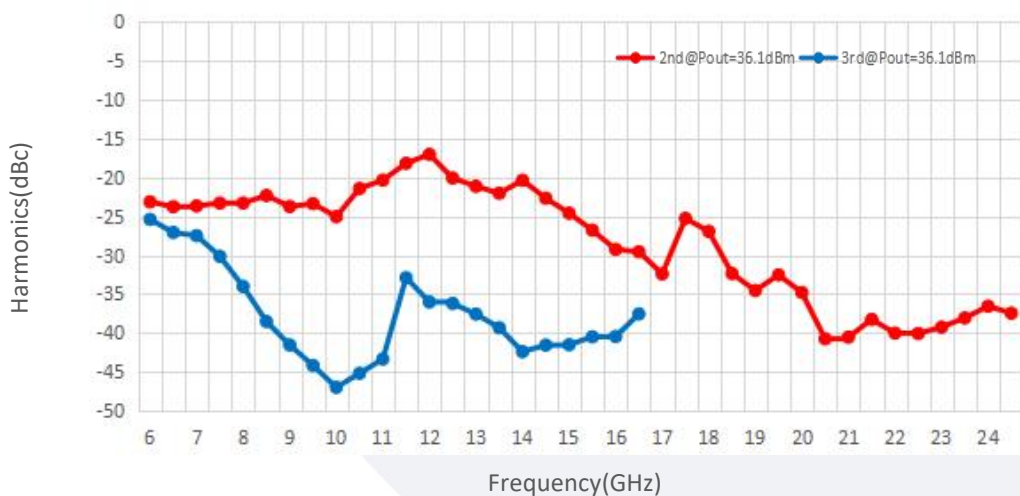
Pout@Equal_Pin



Pout@Pin



Harmonics@Pout=36dBm



Typical Performance Data:

Spurious@Pout=36dBm

