

Model:TLPA2G6G-47-47

Power Amplifier 2-6GHz,Gain:47dB,Psat:47dBm

Feature:

- Ultra Wide Band: 2-6GHz
- Gain:47dB Min
- Psat Output Power:47dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	2-6			GHz
Gain	47			dB
Gain Flatness			±1.5	dB
Output P1dB Flatness		±3		dB
Output Psat	47	48		dBm
Spurious			-60	dBc
Harmonics		-15		dBc
Input VSWR			2	:1
DC Voltage		+36		V DC
DC Supply Current		12		A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	J30J-21ZKP	
Size	200*120*20	mm
Weight	3	Kg

Absolute Maximum Ratings:

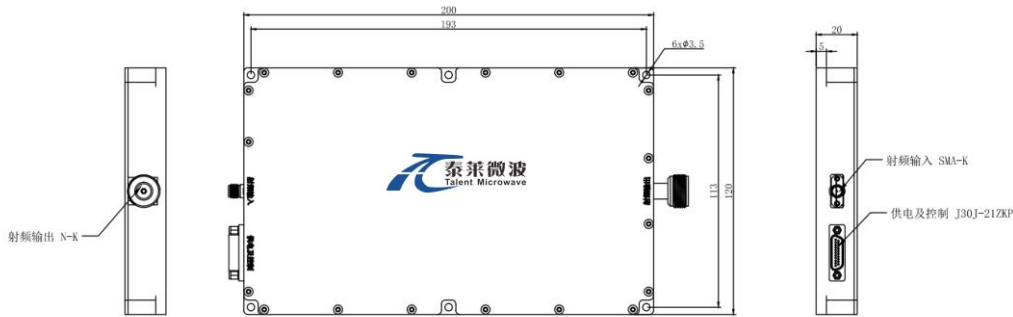
Parameter	Value
Supply Bias Voltage	+36V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

J30J-21ZKP	
Pin	Function
Pin1-9	+36V
Pin10-18	GND
Pin19	Current detection (analog voltage, current/voltage comparison table provided)
Pin20	Temperature detection (analog voltage, temperature/voltage comparison table available)
Pin21	Enable (high level valid, low level and hover invalid)



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
TLPA2G6G-47-47	Power amplifier 2-6GHz,Gain:47dB,Psat:47dBm,+36V DC,Without Heatsink.	Rev.1.1
TLPA2G6G-47-47-HS	Power amplifier 2-6GHz,Gain:47dB,Psat:47dBm,+36V DC,With Heatsink.	Rev.1.1