

Model:TLPA6G18G-50-45

Power Amplifier 6-18GHz,Gain:50dB,Psat:45dBm

Feature:

- Ultra Wide Band: 6-18 GHz
- Gain: 50 dB Min
- Psat Output Power: 45 dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Power Gain	50			dB
Gain Flatness		±4		dB
Output Psat	45			dBm
Spurious@Pout=45dBm			-60	dBc
Harmonics@Pout=45dBm			-10	dBc
DC Voltage		28		V DC
Power Consumption			350	W
Impedance	50			Ohms

Note:The equalizer is external.

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Supply	SUB-7W2	A1: +28V A2: GND 1-5:NC
Size	200*100*23	mm
Weight	≤3.5	g

Absolute Maximum Ratings:

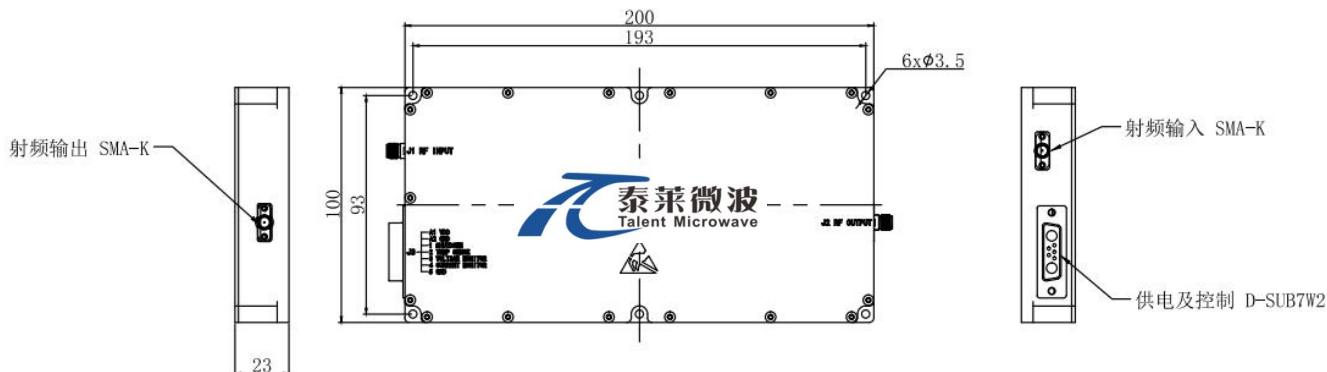
Parameter	Value
RF Input Power	10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation

Environmental Conditions:



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	°C
Non-operating Temperature*	-50		+60	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	Revision
TLPA6G18G-50-45	Power amplifier 6-18GHz,Gain:50dB,Psat:45dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA6G18G-50-45-HS	Power amplifier 6-18GHz,Gain:50dB,Psat:45dBm, +28V DC,With Heatsink	Rev.1.1