

Model:TLPA6G18G-47-47

Power Amplifier

6-18GHz,Gain:47dB,Psat:47dBm

Feature:

- Ultra Wide Band: 6-18GHz
- Gain:47dB Min
- Psat Output Power:47dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	6-18			GHz
Gain	47			dB
Gain Flatness		±4		dB
Output P1dB	41			dBm
Output Psat	47	48		dBm
Spurious			-50	dBc
Harmonics			-13	dBc
Input VSWR			2	:1
Output VSWR			2	:1
DC Voltage		+28		V DC
Power Consumption		800		W
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/N Female	
Monitor and Control Interface	D-SUB7W2	
Size	/	mm
Weight	5	Kg

Absolute Maximum Ratings:

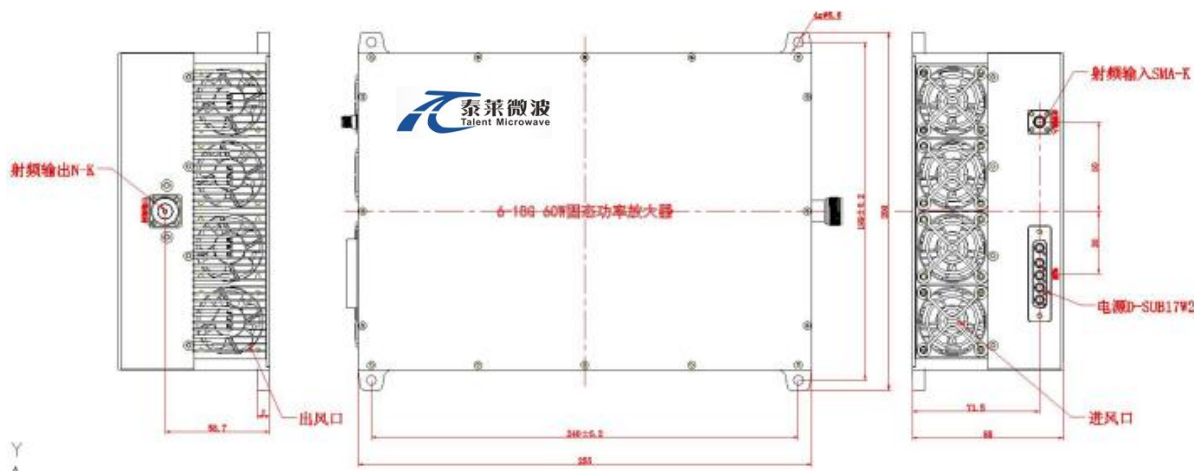
Parameter	Value
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



***Heat Sink Required During Operation



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-40		+50	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		98		%
Altitude	15,000			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-47-47	Power amplifier 6-18GHz,Gain:47dB,Psat:47dBm,+28V DC,Without Heatsink.	Rev.1.1
TLPA6G18G-47-47-HS	Power amplifier 6-18GHz,Gain:47dB,Psat:47dBm,+28V DC,With Heatsink.	Rev.1.1