

Model:TLPA1G18G-43-43
Power Amplifier
1-18GHz,Gain:43dB,Psat:43dBm
Feature:

- Ultra Wide Band: 1-18GHz
- Gain:43 dB Min
- Psat Output Power: 43dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	1-18			GHz
Gain	43			dB
Gain Flatness		±5		dB
Output Psat	43			dBm
Spurious			-60	dBc
Harmonics			-10	dBc
Input VSWR			2.5	:1
DC Voltage	+28			V DC
Power Consumption			40	W
Impedance	50			Ohms

Mechanical Specifications:

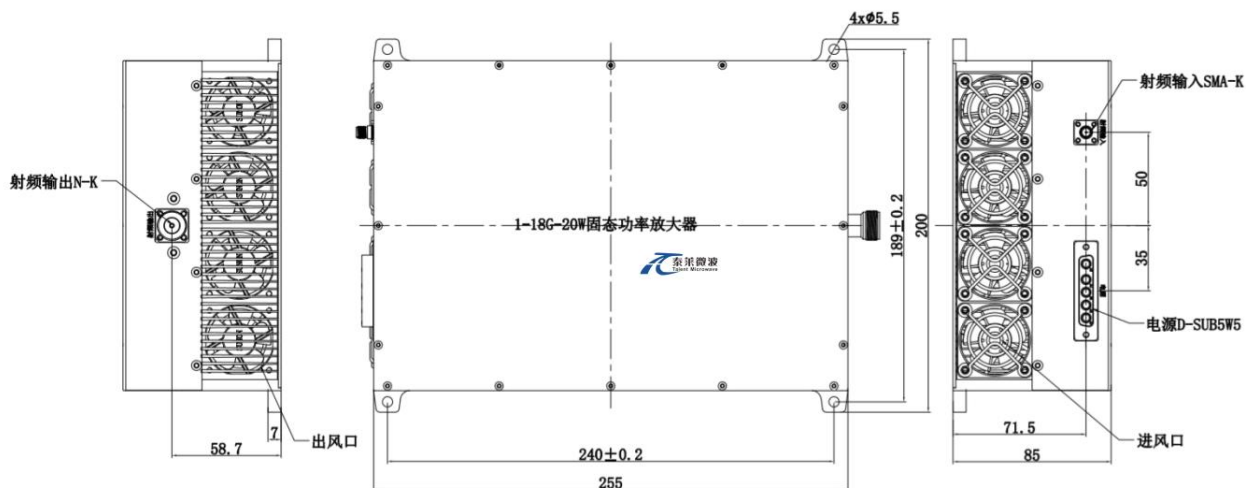
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
Monitor and control interface	D-SUB7W2	
Size	255*200*85	mm
Weight	7.5	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



D-SUB7W2 Define

Pin	Function
A1	+28V
A2	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	-55		+125	°C
Relative humidity		95		%
Altitude	10000		30,000	feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA1G18G-43-43	Power amplifier 1-18GHz,Gain:43dB,Psat:43dBm, +28V DC,Without Heatsink	Rev.1.1
TLPA1G18G-43-43-HS	Power amplifier 1-18GHz,Gain:43dB,Psat:43dBm, +28V DC,With Heatsink	Rev.1.1