

Power Amplifier

6-18GHz/45dB Gain/45 dBm Psat

Model: TLPA6G18G-45-45

TLPA6G18G-45-45 is a power amplifier with a minimum power gain of 45 dB and a minimum Psat of 45 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/350 W. The input and output port configuration offers coax adapter structure with SMA female.

Features:

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

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

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

Mechanical Specifications:

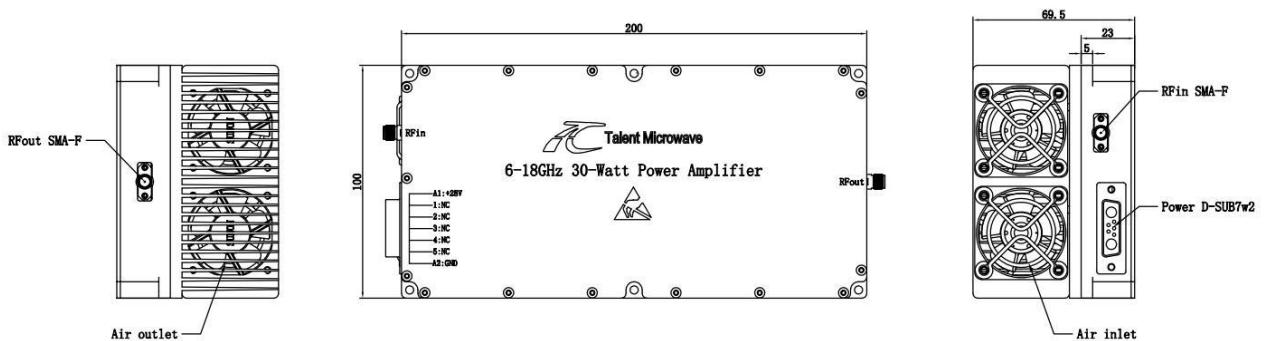
Parameter	Value	Units
Input /Output Connector	SMA Femlae/SMA Female	
DC Bias	SUB-7W2	A1:+28V A2:GND 1-5:NC
Size	200*100*23	mm
Weight	≤3.5	Kg

Absolute Maximum Ratings:

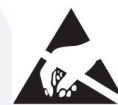
Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



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



ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

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)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
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:

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