

## Power Amplifier

6-18GHz/55dB Gain/55dBm Psat

Model: TLPA6G18G-55-55

TLPA6G18G-55-55 is a power amplifier with a minimum power gain of 55 dB and a minimum Psat of 55 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/4000 W. The input port configuration offers coax adapter structure with SMA female and output port is WRD500.

### Features:

- Frequency range:6-18GHz
- Gain: 55dB Min
- Output Power Psat: 55dBm 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	55			dB
Gain Flatness		±5		dB
Output Psat	55			dBm
Spurious@Pout=55dBm			-55	dBc
Harmonic@Pout=55dBm			-15	dBc
DC Voltage		+28		V DC
Power consumption			4000	W
Impedance		50		Ohms

## Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/WRD500	
Power Supply Connector	Y50DX-1804	Pin1~2 : +28V Pin3~4: GND
Size	270*276*207.25	mm
Weight	≤25	Kg

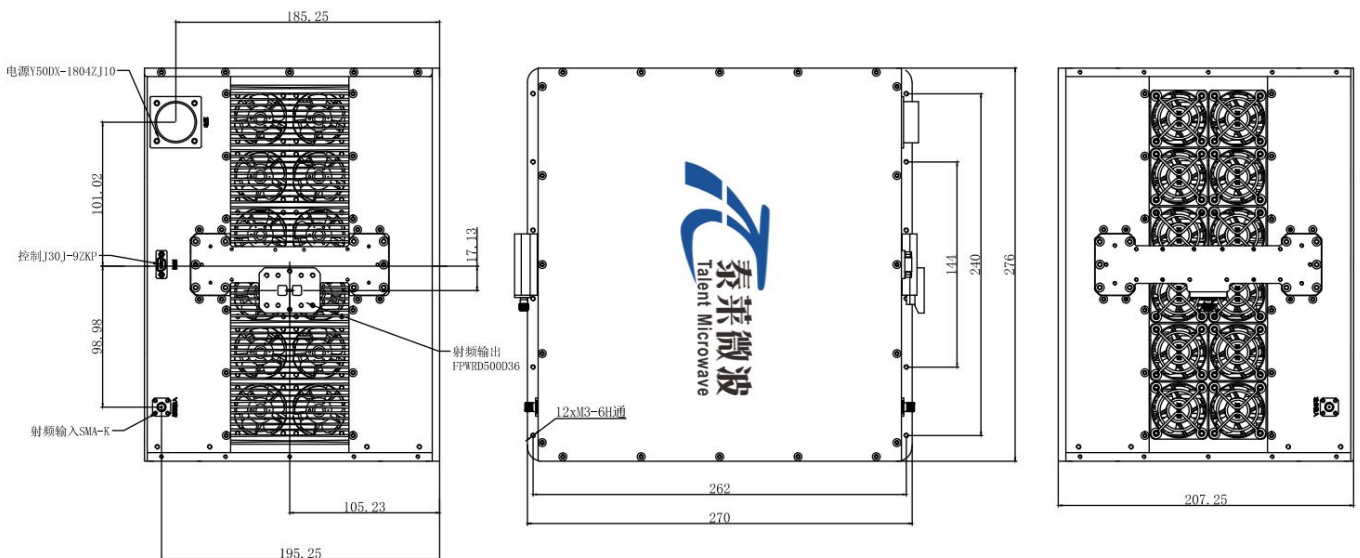
## Absolute Maximum Ratings:

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



## Outline Drawing:

Unit:mm



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

### Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+50	°C
Non-operating Temperature*	-30		+60	°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			

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

### Ordering Information:

Base Number	Description	Revision
TLPA6G18G-55-55	Power amplifier 6-18GHz, Gain:55dB,Psat:55dBm,+28V DC,With Heatsink	Rev.1.1