

Power Amplifier

6-18GHz/56dB Gain/56dBm Psat

Model: TLPA6G18G-56-56

TLPA6G18G-56-56 is a power amplifier with a minimum power gain of 56 dB and a minimum Psat of 56 dBm across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +TBD VDC. The input port configuration offers coax adapter structure with 2.92mm 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	56			dB
Gain flatness		±4.5		dB
Output Psat	56			dBm
Output P1dB		52		dBm
Spurious@Pout=56dBm			-60	dBc
Harmonics@Pout=56dBm			-15	dBc
Input VSWR			2	:1
DC Voltage		28		V DC
Power Consumption			7	KW
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/WRD500D36	
Power Supply Connector	D-SUB-8W8	
Size	310*310*235.22	mm
Weight	≤25	Kg

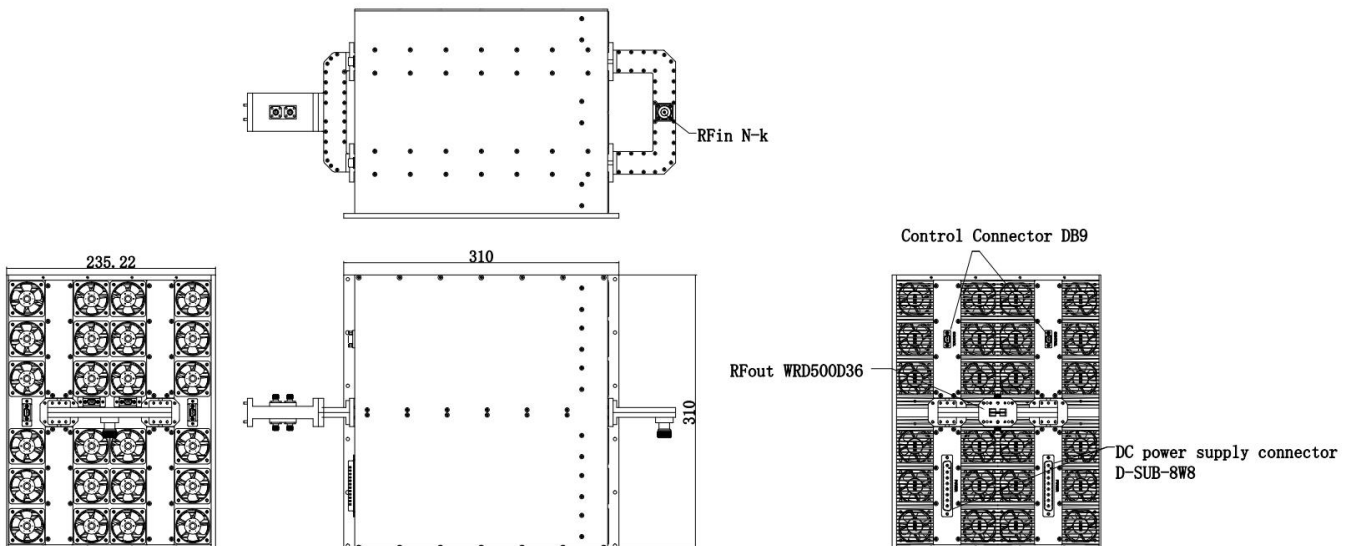
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+29 VDC
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°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-56-56	Power amplifier 6-18GHz, Gain:56dB,Psat:56dBm,TBD V DC,With Heatsink	Rev.1.0