

Solid State High Power Amplifier Systems

5.8-6.8GHz /63dB Gain/63 dBm Psat/28V DC

Model: TLPA5.8G6.8G-63-63-BC

TLPA5.8G6.8G-63-63-BC is a solid state high power amplifier systems provides high output power and high gain across the 5.8 to 6.8 GHz frequency range. The amplifier features a built-in 28V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Wide Band: 5.8-6.8 GHz
- Gain: 63dB Min
- Psat Output Power:63dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	5.8-6.8			GHz
Powr Gain	GP	63	64		dB
Gain flatness	ΔGL		± 2	± 3	dB
Gain adjust Range	ΔGR		20		dB
Gain adjust Step	ΔGS		0.1		dB
Output Psat	Psat	63			dBm
Spurious@Pout=63dBm	Spur			-60	dBc
2nd Harmonics	HAM			-20	dBc
Input VSWR	VSWRin			1.5	:1
DC Voltage	Vdc		28		V DC
Power Consumption	Pdiss			8000	W
Working Mode	MOD	CW/PULSE compatible			
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

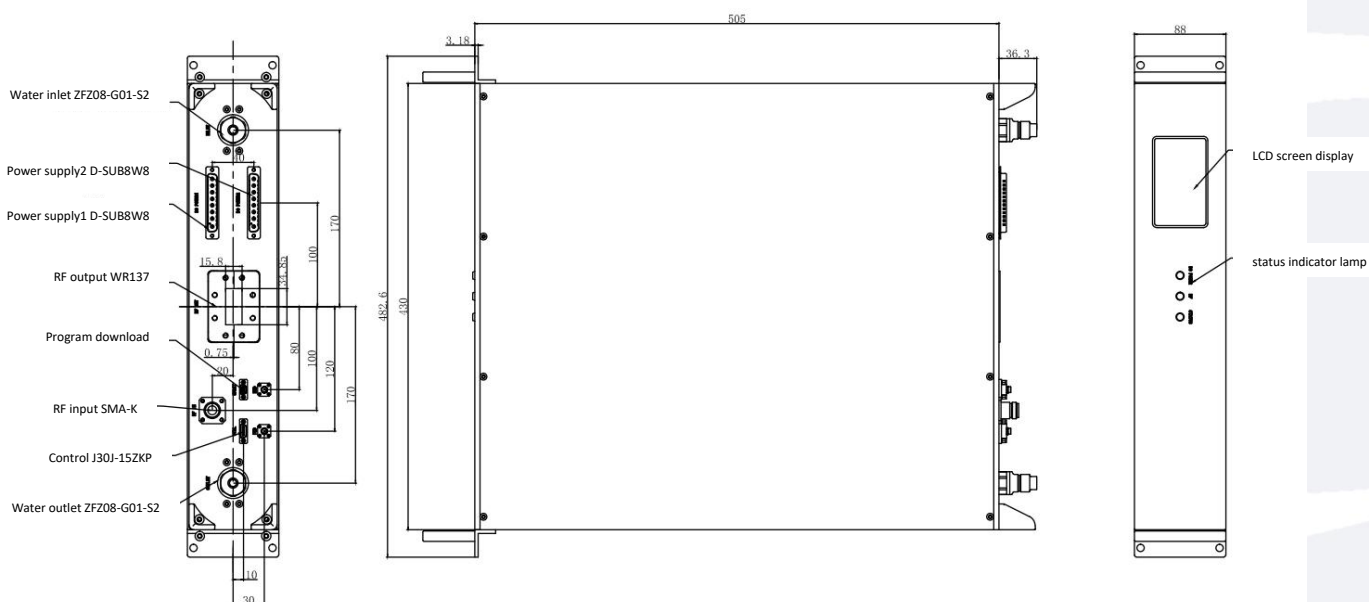
Parameter	Value	Units
Input /Output Connector	N Female/WR137	
Forward/Reverse Coupling	SMA Female/ SMA Female	
Communication Connector	J30J-15DKP/RJ45	
Front Panel LCD Screen Display	4 inch LCD Screen Display	
DC Supply Connector	D-SUB8W8	
Size	19 Inch 4U*550	mm
Weight	≤30	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control 3, RF setting On/Off
Protection functions	1, Over TEM 2, Over voltage 3, Over current 4, Over VSWR
Monitor functions	1, Core module temperature 2, Operating temperature & current 3, Output/reflected power
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system, forced liquid cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°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
TLPA5.8G6.8G-63-63-BC	Solid State High Power Amplifier Systems 5.8-6.8GHz, Gain:63dB, Psat:63 dBm, +28V DC, Built in liquid Cooling	Rev.1.1