

Model:TLPA1.5G-65-65-P

Solid State High Power Amplifier Systems 1.5GHz,Gain:65dB,Psat:65 dBm,48V DC

Feature:

- Wide Band: 1.5GHz
- Gain: 65dB Min
- Psat Output Power:65dBm Min
- Working mode:Pulse only
- Protection:Over TEM,over voltage, over current ,over VSWR protection.
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Symbo	Min	Typ	Max	Units
Frequency Range	BW	1.5			GHz
Working Mode	MOD	PULSE ONLY			
Power Gain@Pout=65dBm	GP	65			dB
Output Psat	Psat	65	66		dBm
Spurious@Pout=65dBm	Spur			-60	dBc
Harmonics@Pout=65dBm	HAM			-20	dBc
Input Signal Mode	IPS_MOD	CW/PULSE			
Modulation Signal Level	TTL	0		5	V
Modulation Frequency	MF	1		100	KHz
Pulse Width	T	1		500	us
Duty Cycle	τ	0.1		30	%
Rise/Fall Time	Tr		50	100	ns
Pulse Input	TTL level, 50 ohm nominal termination				
Pulse Drop@T=100us	Pdrop		0.5	1	dB
Star Delay	DSU		150		ns
Shutoff Delay	TOF		250		ns
Input VSWR	VSWRin			1.5	:1
Output VSWR	VSWRout			2	:1
Supply Voltage	V	+48(It can be changed to 220 V AC)			V DC
Power consumption	Pdiss			2000	W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

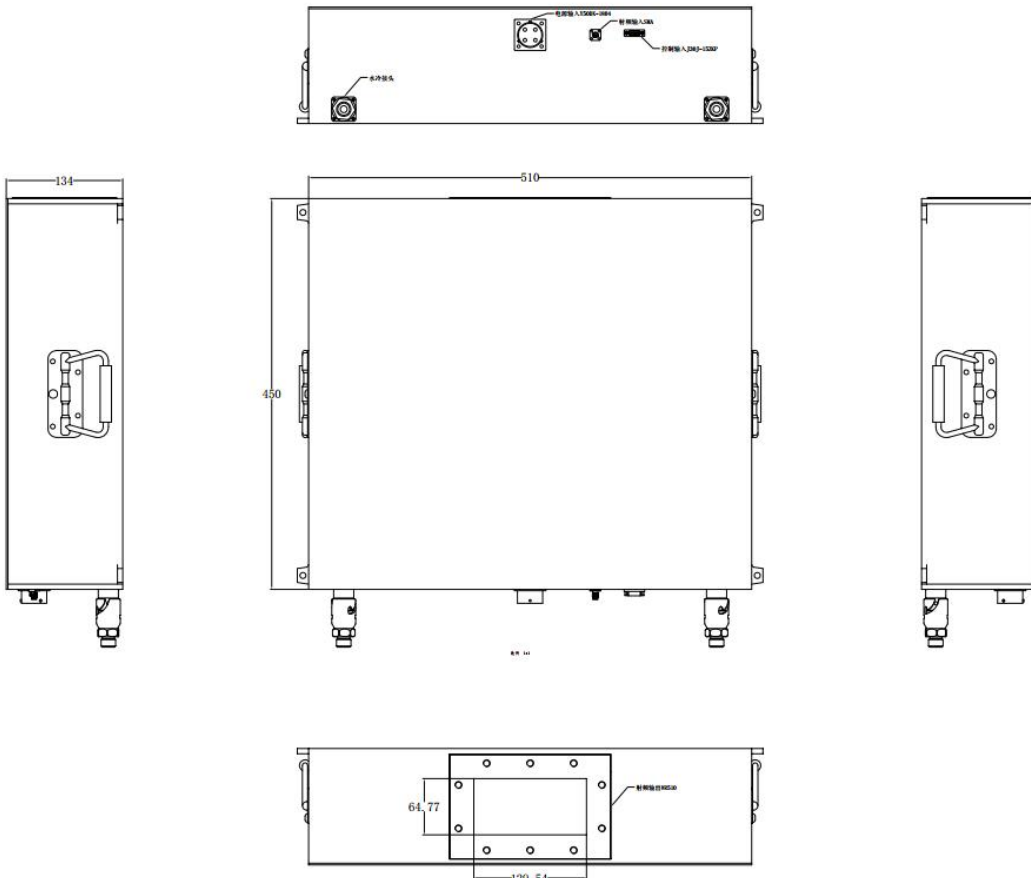
Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Supply Connector	Y50DX-1804	
Modulation Signal Input Connector	J30J-15ZKP	
Size	510*450*134	mm
Weight	≤35	Kg

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
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Remote control	RS422
Cooling system	Built in Cooling system, liquid cooling.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
Relative humidity		95		%
Altitude	10000			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:

Part Number	Description	Revision
TLPA1.5G-65-65-P	Solid State High Power Amplifier Systems 1.5GHz, Gain: 65dB, Psat: 65 dBm, +48V DC, Built in Liquid Cooling	Rev. 1.0