泰莱微波
Talent Microwave

Suzhou Talent Microwave,Inc
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Solid State High Power Amplifier Systems

2-3GHz/63dB Gain/63dBm Psat/220V AC Model: TLPA2G3G-63-63-P-BC

TLPA2G3G-63-63-P-BC is a solid state high power amplifier systems provides high output power and high gain across the 2 to 3 GHz frequency range. The amplifier features a built-in 220V 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:

- Frequency range: 2-3GHz
- Gain: 63dB Min
- Psat Output Power: 63dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR, over pulse width, over PRF protection
- 50 Ohm Matched Input / Output

Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW		2-3		GHz
Working Mode	MOD		PULSE ONLY		
Power Gain	GP	63			dB
Gain flatness@Pout=63dBm	ΔGP		±3		dB
Output Psat	Psat	63			dBm
Spurious@Pout=63dBm	Spur			-60	dBc
Harmonics@Pout=63dBm	HAM		-10		dBc
Modulation Signal Level	TTL	0		5	V
Modulation Frequency	MF	1		100	KHz
Pulse Width	T	0.3		100	us
Duty Cycle	τ			5	%
Rise/Fall Time	Tr		100		ns
Pulse Drop@T=100us	Pdrop		0.5		dB
Pulse Delay	Pd		250		ns
Pulse off isolation	Piso		80		dBc
Pulse Width Distortion	PWd		±50		ns
Input VSWR	VSWR			1.5	:1

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Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Noise Floor@pulse on	NL1	-55	-70		dBm/Hz
Noise Floor@pulse off	NL2		-140		dBm/Hz
AC Voltage	Vac		220		V AC
Power consumption@5% duty cycle	Pdiss		2200		W
Impedance	I/O-IMP		50		Ohms

*Note: If the input signal is a pulse, the modulated TTL can always be high, but the pulse parameter limit of the input pulse signal is again shown in the table above.

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/L29 Female	
Forward/Reverse Coupling	SMA Female/SMA Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Pulse Input Connector	BNC Female	
Communication Connector	DB9/RJ-45	
Size	19 Inch 6U*600 depth	mm
Weight	≤45	Kg

Absolute Maximum Ratings:

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

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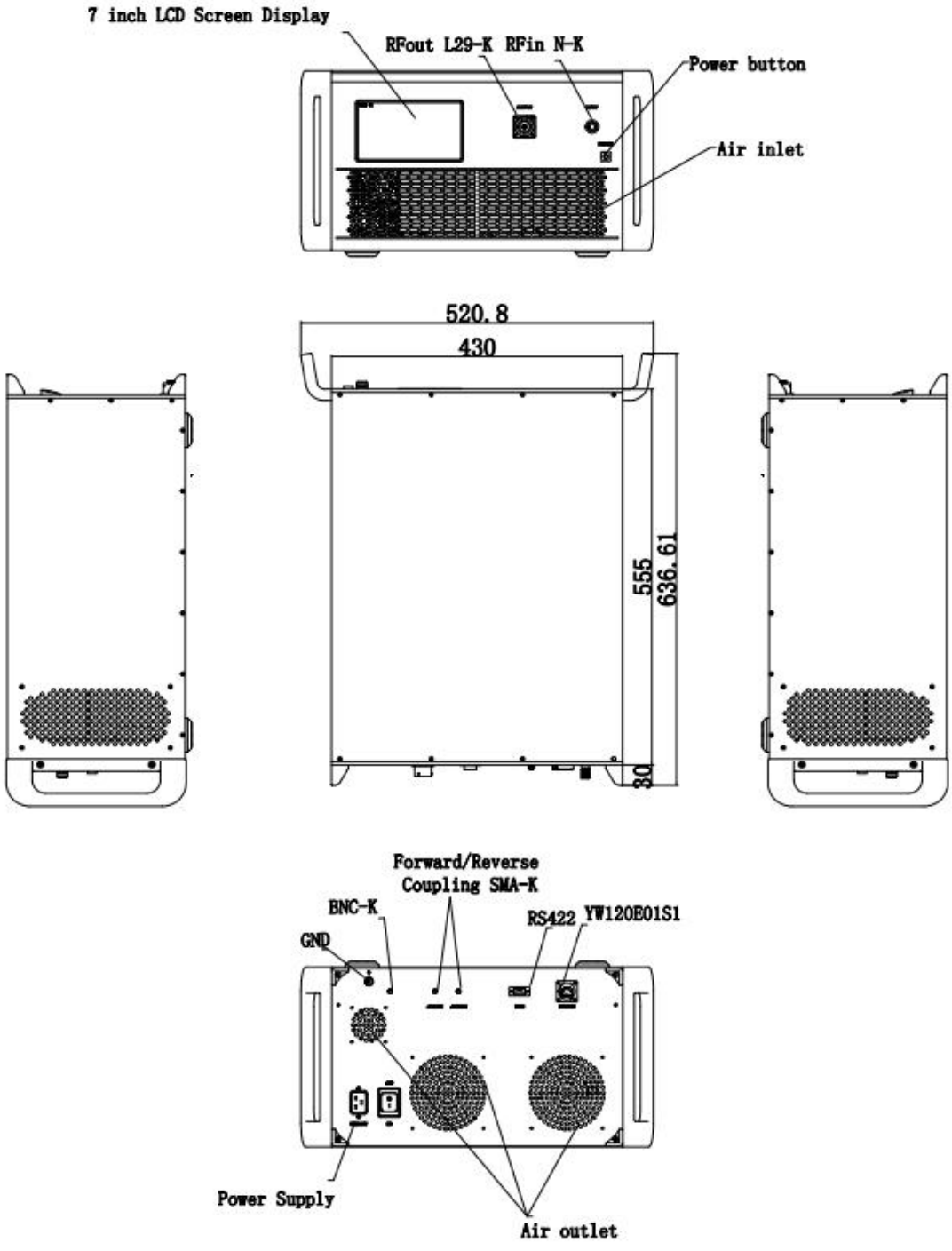
Outline Drawing:

Unit:mm



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Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2,RF setting on/off 3,ALC automatic level control 4,Gain Control
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR 5,Over pulse width 6,over PRF
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	℃
Non-operating Temperature*	-30		+50	℃
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
TLPA2G3G-63-63-P-BC	Solid State High Power Amplifier Systems 2-3GHz,Gain:63dB,Psat:63dBm,220V AC,Built in Fan Cooling	Rev.1.0