

**Model:TLPA13.75G14.5G-55-55-BC**
**Solid State High Power Amplifier Systems  
 13.75-14.5GHz,Gain:55dB,Psat:55dBm,  
 220V AC**
**Feature:**

- Ultra Wide Band: 13.75-14.5 GHz
- Gain: 55 dB Min
- Psat Output Power: 55 dBm Min
- 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	13.75-14.5			GHz
Power Gain	GP	55			dB
Gain flatness	$\Delta$ GL	±0.2@any 40MHz ±2@any 500MHz			dB
Gain adjust range	Gadj	20			dB
Gain stability@-20~+40°C	Gstb		±3		dB
Output Psat	Psat	55			dBm
Spurious@Pout=55dBm	Spur			-60	dBc
Output IM3@5MHz space	IM3	-25 max at total power 51dBm			dBc
Group delay	Gd	0.03 ns/MHz 0.003 ns/MHz2 1.0 ns peak to peak			
Ample phase transformation	AM/PM	3.5°/dB max. at pout=51dBm			
Output coupling	/		-50		dB
Input VSWR	VSWRin			1.5	:1
Output VSWR	VSWRout			1.5	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss	2000@Max			W
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	N Female/WR62	
Forward/Reverse Coupling	SMA Female/ SMA Female	
Communication Connector	DB9/RJ45	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch*5U*550	mm
Weight	≤35	Kg

### Absolute Maximum Ratings:

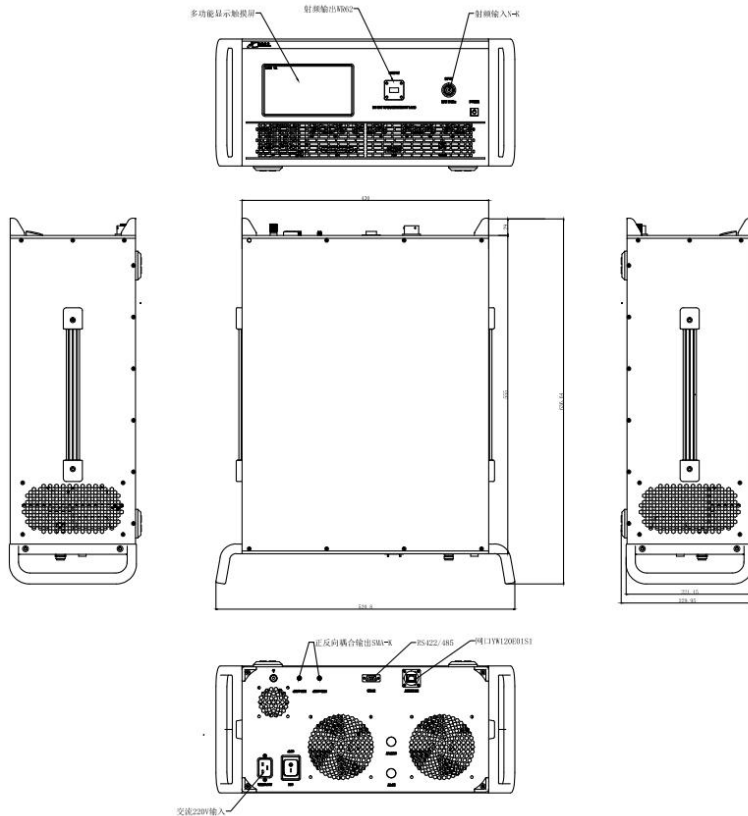
Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System  
Benchtop Amplifier

### Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

### Key Features:

Parameter	Advantages
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Remote control	RS422
Cooling system	Built in Cooling system, forced air 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)	20g,11ms,saw-tooth			
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
TLPA13.75G14.5G-55-55-BC	Solid State High Power Amplifier Systems 13.75-14.5GHz, Gain:55dB, Psat:55 dBm, 220V AC, Built in Fan Cooling	Rev.1.1