

**Model:TLPA17G22G-53-53-BC**
**Solid State High Power Amplifier Systems  
 17-22GHz,Gain:53dB,Psat:53 dBm,220V AC**
**Feature:**

- Wide Band: 17-22GHz
- Gain: 53dB Min
- Psat Output Power:53dBm 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	17-22			GHz
Small Signal Gain	SSGP	53			dB
Gain flatness	$\Delta$ GL			$\pm 4$	dB
Output Psat	Psat	53			dBm
Spurious@Pout=53dBm	Spur			-60	dBc
Harmonics@Pout=53dBm	HAM			-20	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
Consumption	Pdiss			3000	W
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

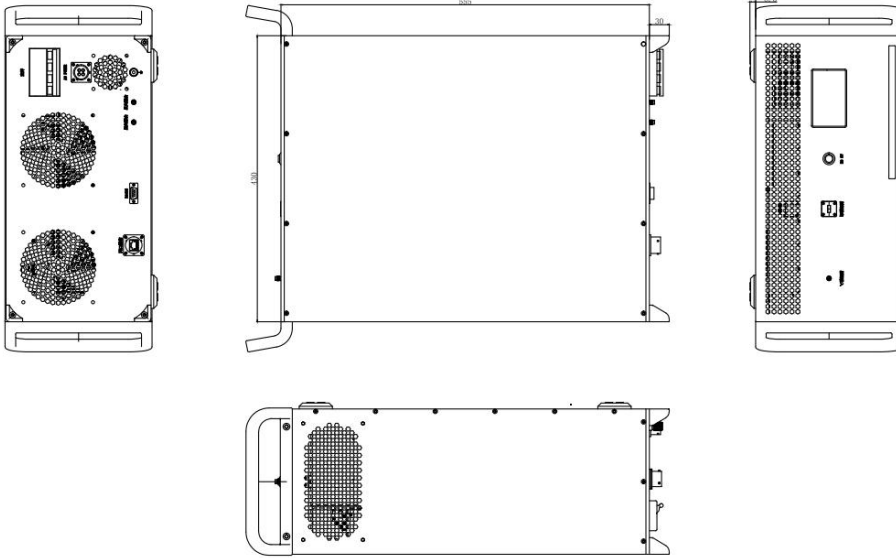
Parameter	Value	Units
Input /Output Connector	2.92mm Female/WR-51	
Communication Connector	RJ-45/DB9	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 5U*553	mm
Weight	$\leq 45$	Kg

**Absolute Maximum Ratings:**

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

**Outline Drawing:**

Unit: mm



**Key Features:**



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

Parameter	Advantages
Control functions	1, Power setting On/Off
Display functions	1, Output Power 2, Reflect Power 3, Fault Informations
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Remote control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+53	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			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			

**Ordering Information:**

art Number	Description	Revision
TLPA17G22G-53-53-BC	Solid State High Power Amplifier Systems 17-22GHz, Gain:53dB, Psat:53 dBm, 220V AC, Built in Fan Cooling	Rev.1.0