

**Model: TLPA4.4G5G-70-60-BC**
**Solid State High Power Amplifier Systems  
 4.4-5GHz, Gain: 70dB, Psat: 60dBm 220V AC**
**Feature:**

- Wide Band: 4.4-5GHz
- Gain: 70dB Min
- Psat Output Power: 60dBm 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	4.4-5			GHz
Gain	GP	70	73		dB
Gain flatness	$\Delta$ GL		$\pm 2$	$\pm 3$	dB
Output P1dB	P1dB		57		dBm
Output Psat	Psat	60			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM		-20		dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	6000@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input/Output Connector	N Female/7/16 DIN	
Monitor and control interface	D-SUB 15PIN	
Size	12U Rack Mount Chassis	
Weight	50	Kg

**Absolute Maximum Ratings:**

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

**Outline Drawing:**

Unit: mm



**Key Features:**



Parameter	Advantages
Control	RS422/Ethernet
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1,Power setting On/Off 2,ALC
Cooling system	Built in Cooling system,forced air cooling

**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	0		+50	°C
Non-operating Temperature	-40		+85	°C
Relative humidity		98		%
Altitude	15000			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:**

Part Number	Description	Revision
TLPA4.4G5G-70-60-BC	Solid State High Power Amplifier Systems 4.4-5GHz,Gain:70dB,Psat:60dBm,220V AC,Built in Fan Cooling	Rev.1.0