

**Model:TLPA6G18G-50-50-BC**
**Solid State High Power Amplifier Systems  
 6-18GHz,Gain:50dB,Psat:50 dBm,220V AC**
**Feature:**

- Wide Band: 6-18GHz
- Gain: 50dB Min
- Psat Output Power:50dBm 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	6-18			GHz
Gain	GP	50			dB
Gain flatness	$\Delta$ GL		$\pm 4.5$		dB
Output Psat	Psat	50			dBm
Output P1dB	P1dB		45		dBm
Spurious @Pout=50dBm	Spur			-60	dBc
Harmonics @Pout=50dBm	HAM			-20	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	1500@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	SMA Female/N Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U*550 depth	mm
Weight	30	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
Control	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

**Environmental Conditions:**

Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°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:**

Part Number	Description	Revision
TLPA6G18G-50-50-BC	Solid State High Power Amplifier Systems 6-18GHz,Gain:50dB,Psat:50 dBm,220V AC,Built in Fan Cooling	Rev.1.0