

**Model:TLPA2G18G-46-46-BC**
**Solid State High Power Amplifier Systems  
 2-18GHz,Gain:46dB,Psat:46dBm,220V AC**
**Feature:**

- Wide Band: 2-18GHz
- Gain: 46dB Min
- Psat Output Power:46dBm 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	2-18			GHz
Gain	GP	46			dB
Gain flatness	$\Delta$ GL			$\pm 1.5$	dB
Output Psat	Psat	46			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input/Output Connector	SMA Female/N Female	
AC Power Interface	Air switch	
Size	19 Inch 3U	
Weight	25	Kg

**Absolute Maximum Ratings:**

Parameter	Value
Supply Bias Voltage	260V AC
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	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	-20		+60	°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
TLPA2G18G-46-46-BC	Solid State High Power Amplifier Systems 2-18GHz,Gain:46dB,Psat:46dBm,220V AC,Built in Fan Cooling	Rev.1.0