

## Model:TLPA1G18G-40-40-BC

## Solid State High Power Amplifier Systems 1-18GHz,Gain:40dB,Psat:40 dBm,220V AC

### Feature:

- Wide Band: 1-18GHz
- Gain: 40dB Min
- Psat Output Power:40dBm 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	1-18			GHz
Gain	GP	40			dB
Gain flatness	$\Delta$ GL		$\pm 4.5$		dB
Output Psat	Psat	40			dBm
Spurious@Pout=40dBm	Spur			-60	dBc
Harmonics@Pout=40dBm	HAM			-10	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac	220			V AC
AC Consumption	Pdiss	400@Max			W
Impedance	I/O-IMP	50			Ohms

### Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U*540	mm
Weight	$\leq 30$	Kg

### Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

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		+40	°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
TLPA1G18G-40-40-BC	Solid State High Power Amplifier Systems 1-18GHz, Gain:40dB, Psat:40 dBm, 220V AC, Built in Fan Cooling	Rev.1.0