

## Model:TLPA3.1G3.4G-59-59-P-BC

## Solid State High Power Amplifier Systems 3.1-3.4GHz,Gain:59dB,Psat:59 dBm,220V AC

### Feature:

- Wide Band: 3.1-3.4GHz
- Gain: 59dB Min
- Psat Output Power:59dBm 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	3.1-3.4			GHz
Small Signal Gain	SSGP	59			dB
Gain flatness	$\Delta$ GL		$\pm 3$		dB
Output Psat	Psat	59			dBm
Spurious@Pout=59dBm	Spur			-60	dBc
Harmonics@Pout=59dBm	HAM			-20	dBc
Modulation Signal Level	TTL	0		5	V
Modulation Frequency	MF			100	KHz
Pulse Width	T	0.3		500	us
Duty Cycle	$\tau$	0.1		20	%
Input VSWR	VSWR		1.5	2	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss	1000			W
Impedance	I/O-IMP	50			Ohms

### Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	N Female/N Female	
Forward/Reverse Coupling	SMA Female/SMA Female	
Size	19 Inch 4U*550	mm
Weight	$\leq 35$	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
Remote 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
TLPA3.1G3.4G-59-59-P-BC	Solid State High Power Amplifier Systems 3.1-3.4GHz,Gain:59dB,Psat:59 dBm,220V AC,Built in Fan Cooling	Rev.1.0