

## Model:TLPA500M3000M-50-50-BC

## Solid State High Power Amplifier Systems 500 -3000MHz,Gain:50dB,Psat:50dBm

### Feature:

- Ultra Wide Band: 500-3000MHz
- Gain: 50dB Min
- Psat Output Power: 50dBm
- 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	0.5-3			GHz
Gain	GP	50			dB
Gain adjustable range	$\Delta$ GR		30		dB
Gain flatness	$\Delta$ GL		$\pm$ 3	$\pm$ 4	dB
Output P1dB	P1dB		47		dBm
Output Psat	Psat	50			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM			-10	dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Supply Current	Iac	2.5A@220V AC			A AC
Impedance	I/O-IMP	50			Ohms

### Mechanical Specifications:

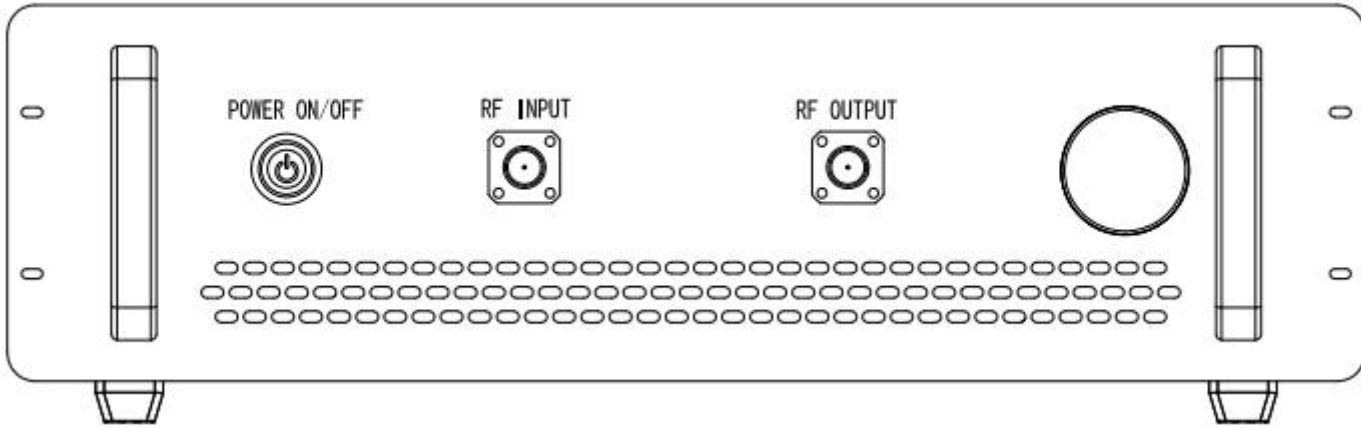
Parameter	Value	Units
Input /Output Connector	N Female	
Size	3U*500 depth	mm
Weight	10	Kg

### Absolute Maximum Ratings:

Parameter	Value
RF Input Power	5 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
Communication functions	RS422/Ethernet
Cooling system	Built in Cooling system, forced air cooling

### Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-45		+50	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	30000			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
TLPA500M3000M-50-50-BC	Solid State High Power Amplifier Systems 500-3000MHz,Gain:50dB,Psat:50dBm,220V AC,Built in Fan Cooling	Rev.1.0