

**Model:TLPA400M1G-53-53-BC**
**Solid State High Power Amplifier Systems  
 0.4-1GHz,Gain:53dB,Psat:200 Watts,220V AC**
**Feature:**

- Ultra Wide Band: 0.4-1GHz
- Gain: 53dB Min
- Psat Output Power: 200 Watts
- 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	0.4-1			GHz
Gain	GP	53	55		dB
Gain flatness	$\Delta$ GL		$\pm$ 2	$\pm$ 3	dB
Output P1dB	P1dB		100		Watts
Output Psat	Psat	200	250		Watts
Spurious	Spur			-60	dBc
Harmonics	HAM		-15		dBc
Input VSWR	VSWRin		1.5	2.0	:1
AC Voltage	Vac	110	220		V AC
AC Input Power Consumption	Pdiss	1000@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

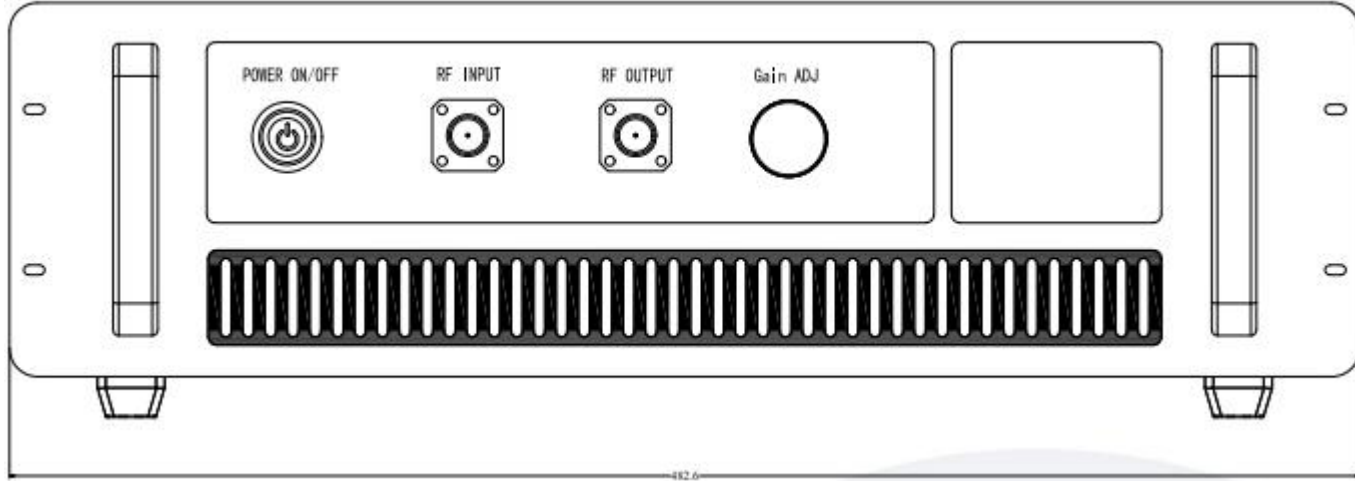
Parameter	Value	Units
Input /Output Connector	N Female	
Size	482.6*133.2*447	mm
Weight	25	Kg

**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	0		+50	°C
Non-operating Temperature	-40		+85	°C
Relative humidity		95		%
Altitude	15000			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
TLPA400M1G-53-53-BC	Solid State High Power Amplifier Systems 0.4-1GHz,Gain:53dB,Psat:200 Watts,220V AC,Built in Fan Cooling	Rev.1.0