

**Model:TLPA1G40G-40-40-BC-P**
**Solid State High Power Amplifier Systems  
 1-40GHz,Gain:40dB,Psat:40 dBm,220V AC**
**Feature:**

- Wide Band:1-40GHz
- 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		Symbol	Min	Typ	Max	Units
Frequency range		BW	1-18			GHz
			18-40			
Gain		GP	40			dB
Gain flatness	@1-18GHz	ΔGL		±3.5		dB
	@18-40GHz			±5		
Output Psat		Psat	40			dBm
Spurious@Pout=40dBm		Spur			-60	dBc
Harmonics	@1-18GHz	HAM			-10	dBc
	@18-40GHz				-15	
Input VSWR	@1-18GHz	VSWRin			2.0	:1
	@18-40GHz				2.5	
AC Voltage		Vac	220			V AC
AC Consumption	@1-18GHz	Pdiss	400@Max			W
	@18-40GHz		300@Max			
Impedance		I/O-IMP	50			Ohms

**Mechanical Specifications:**

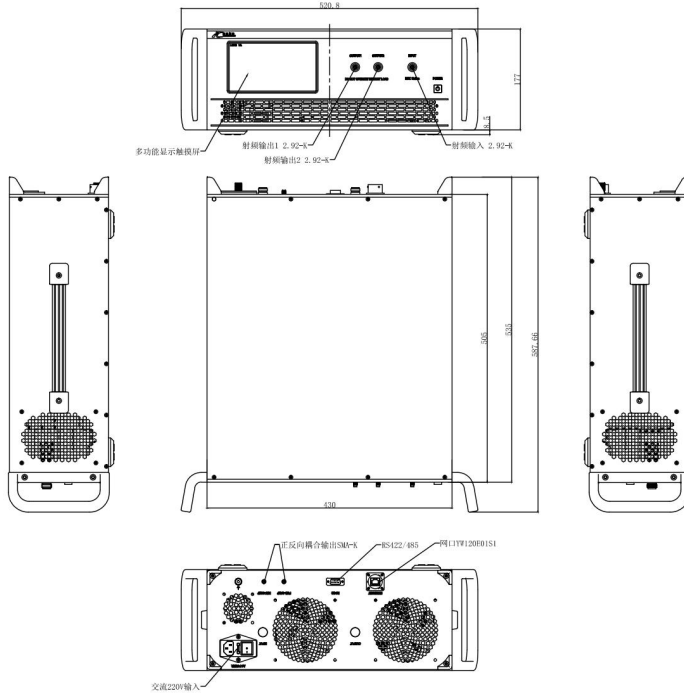
Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
Front Panel LCD Screen Display	7 inch LCD Screen Display	
Size	19 Inch 4U*540	mm
Weight	≤30	Kg

**Absolute Maximum Ratings:**

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

**Outline Drawing:**

Unit: mm



**Key Features:**



Parameter	Advantages
Control functions	1, Power setting On/Off 2, ALC automatic level control 3, Frequency Band Switching
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
TLPA1G40G-40-40-BC-P	Solid State High Power Amplifier Systems 1-40GHz, Gain:40dB, Psat:40 dBm, 220V AC, Built in Fan Cooling	Rev.1.0