

**Model: TLPA26.5G40G-57-57-BC**
**Solid State High Power Amplifier Systems  
 26.5-40GHz, Gain: 57dB, Psat: 57.5dBm, 380V AC**
**Feature:**

- Wide Band: 26.5-40GHz
- Gain: 57dB Min
- Psat Output Power: 57.5dBm 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	26.5-40			GHz
Gain	GP	57			dB
Gain flatness	$\Delta$ GL			$\pm 4.5$	dB
Output Psat	Psat	57.5			dBm
Spurious	Spur			-60	dBc
Harmonics	HAM			-15	dBc
Input/Output VSWR	VSWR			2	:1
AC Voltage	Vac	380			V AC
Power Consumption	Pdiss	12500@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

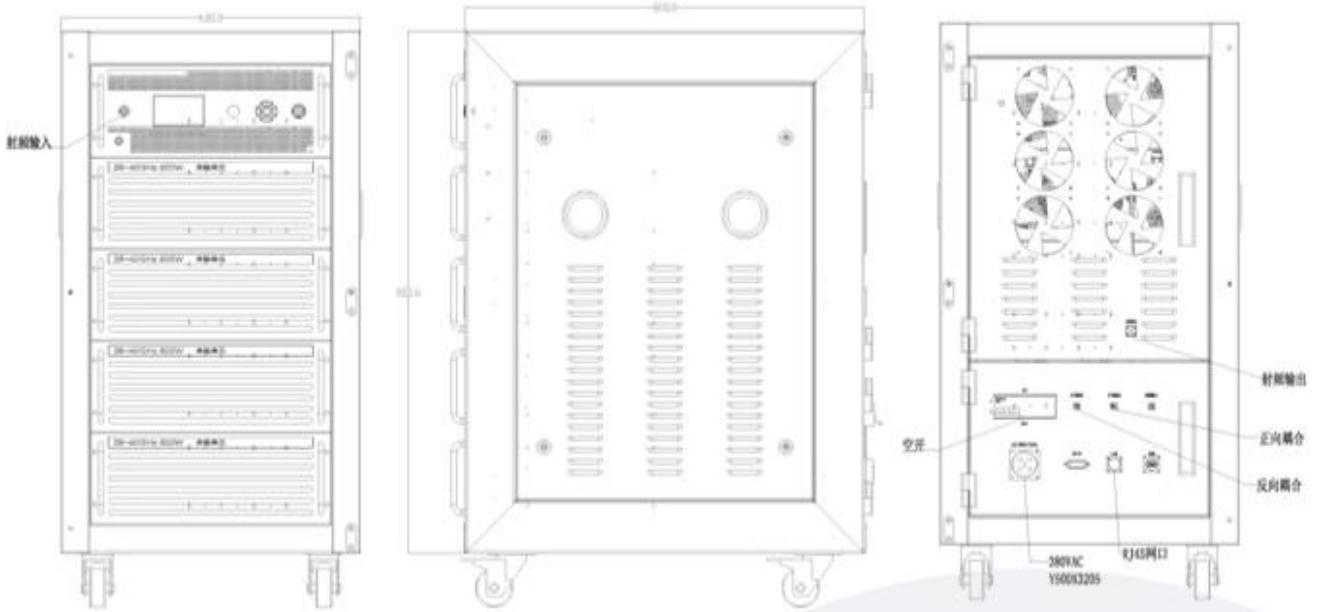
Parameter	Value	Units
Input/Output Connector	2.92 Female/WR-28	
Forward/Reverse Coupling Connector	2.92 Female/2.92 Female	
Front Panel LCD Screen Display	4 Inch LCD Screen Display	
Communication Interfaces	RJ45/DB9/GPIB	
Size	19 Inch 20U	mm
Weight	/	Kg

**Absolute Maximum Ratings:**

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

Outline Drawing:

Unit: mm



Key Features:



OBSERVE PRECAUTIONS  
ELECTROSTATIC SENSITIVE  
DEVICES

Parameter	Advantages
Control	RS422/LAN/GPIB/USB, LCD Screen Display
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1,Power setting On/Off 2,ALC
Cooling system	Front to back forced air cooling fans makes this ideal for usage in test equipment racks

### Environmental Conditions:

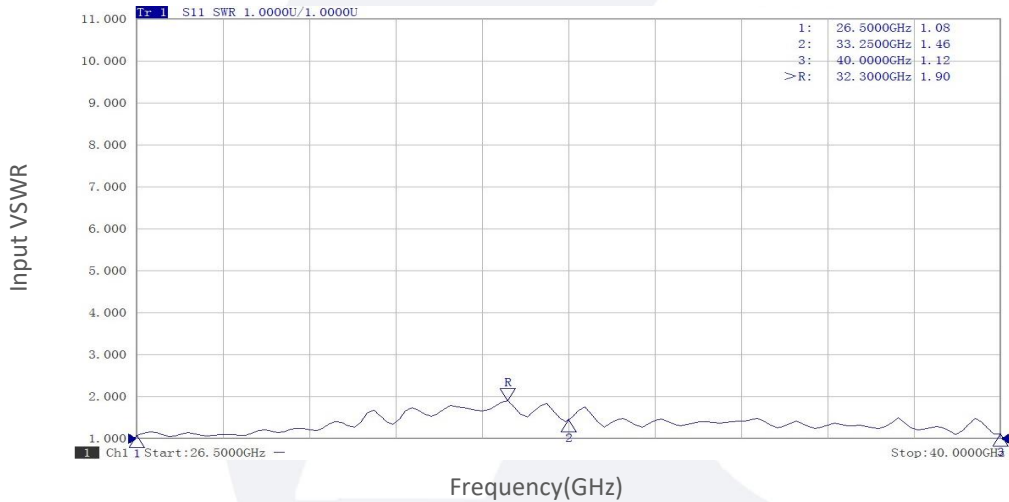
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-40		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

### Ordering Information:

Part Number	Description	Revision
TLPA26.5G40G-57-57-BC	Solid State High Power Amplifier Systems 26.5-40GHz,Gain:57dB,Psat:57.5dBm,380V AC,Built in Fan Cooling	Rev.1.0

### Typical Performance Data:

Input VSWR vs Frequency

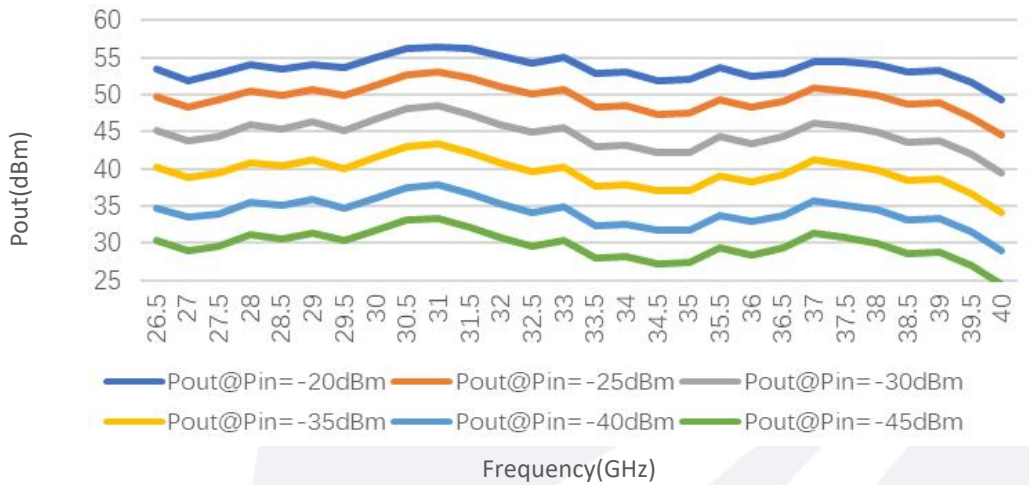


Typical Performance Data:

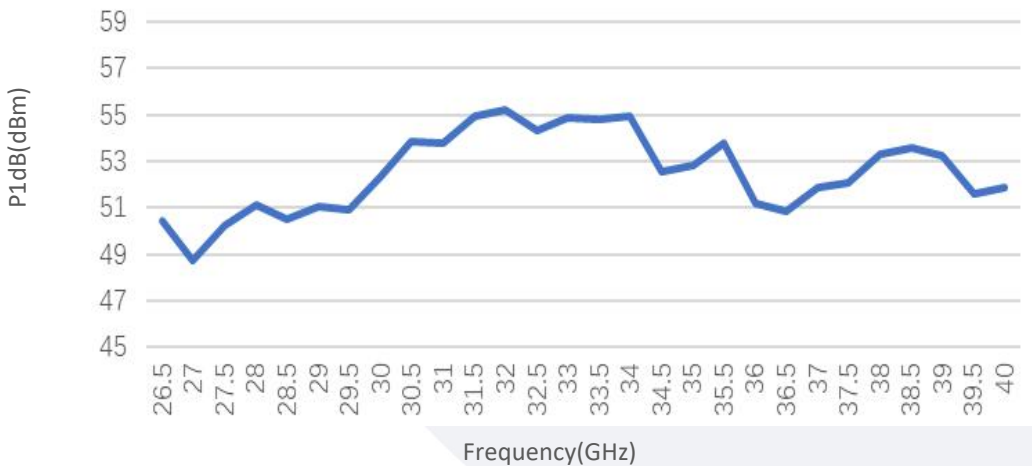
Gain vs Frequency



Pout@Equal\_Pin



P1dB vs Frequency



Typical Performance Data:

Spurious vs Frequency

