

Model:TLPA26.5G40G-52-51-BC

Solid State High Power Amplifier Systems 26.5-40GHz,Gain:52dB,Psat:51dBm,220V AC

Feature:

- Wide Band: 26.5-40GHz
- Gain: 52dB Min
- Psat Output Power:51dBm 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	52			dB
Gain flatness	Δ GL		± 4.5		dB
Output Psat	Psat	51	53		dBm
Output P1dB	P1dB		52		dBm
Spurious	Spur			-50	dBc
Harmonics	HAM			-20	dBc
Input VSWR	VSWRin		2	2.5	:1
AC Voltage	Vac	220			V AC
Power Consumption	Pdiss	1850@Max			Watts
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

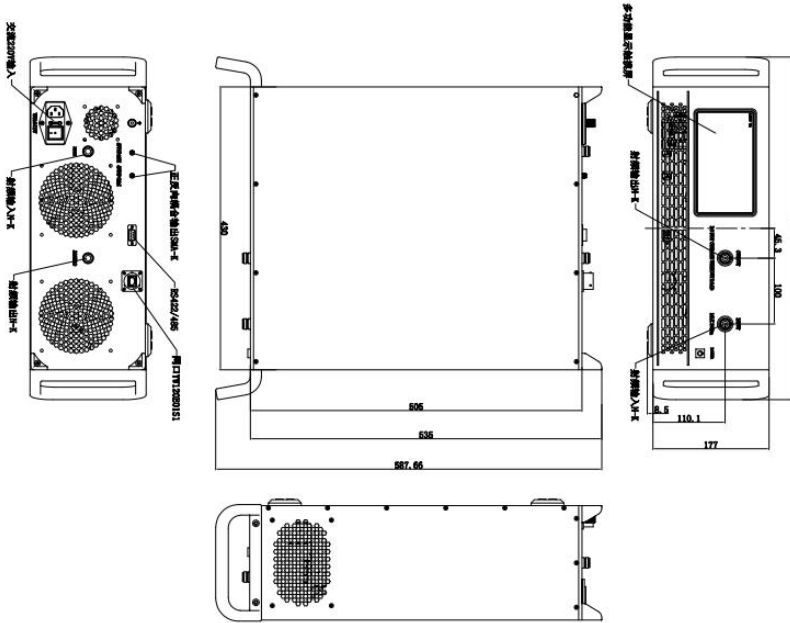
Parameter	Value	Units
Input/Output Connector	2.92 Female/WR-28	
Forward/Reverse Coupling Connector	2.92 Female/2.92 Female	
Communication Interfaces	J30J-9ZKP	
Size	19 Inch 5U*550 depth	mm
Weight	35	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: mm



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Key Features:

Parameter	Advantages
Control	RS422/LAN, Gain adjustment, State query
Protection functions	1, Over TEM 2, Over voltage 3, Over current protection 4, Over VSWR
Control functions	1, Power setting On/Off
Cooling system	Built in Cooling system, forced air cooling

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-20		+40	°C
Non-operating Temperature*	-30		+50	°C
Relative humidity		95		%
Altitude	10000			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			

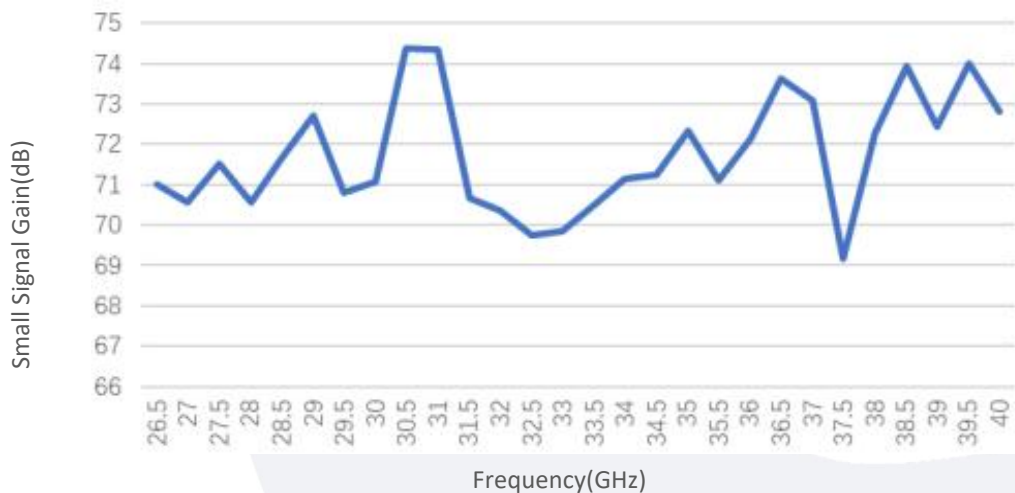
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

Part Number	Description	Revision
TLPA26.5G40G-52-51-BC	Solid State High Power Amplifier Systems 26.5-40GHz,Gain:52dB,Psat:51dBm,220V AC,Built in Fan Cooling	Rev.1.0

Typical Performance Data:

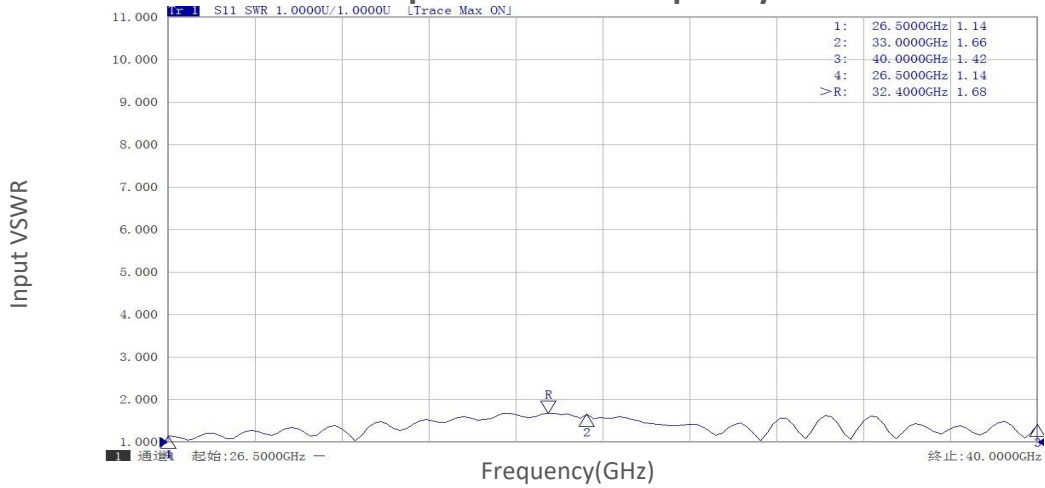
Small Signal Gain vs Frequency



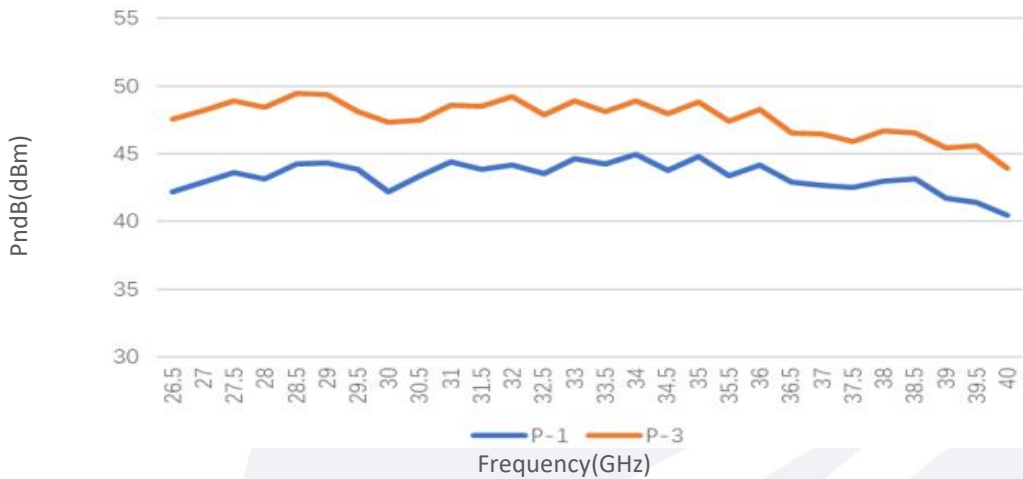
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

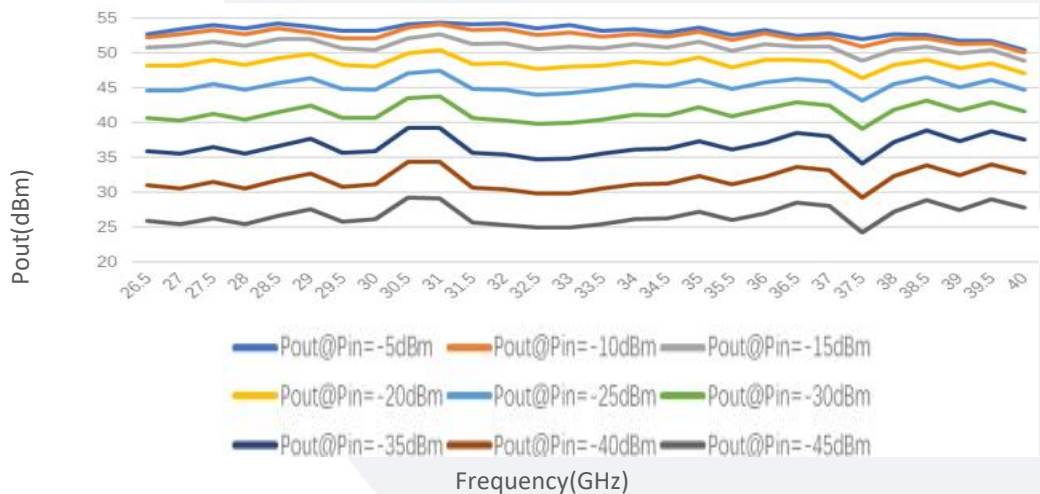
Input VSWR vs Frequency



PndB vs Frequency



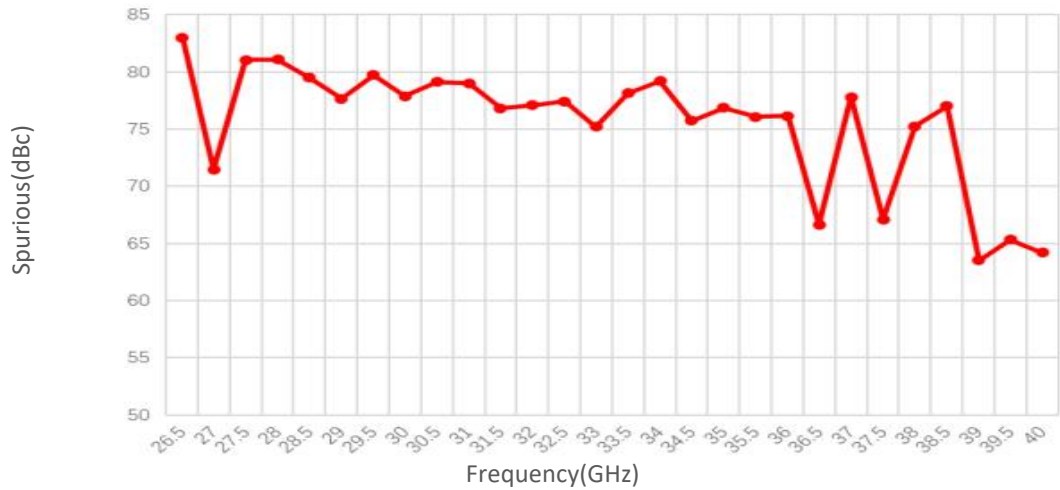
Pout@Equal_Pin



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Typical Performance Data:

Spurious vs Frequency



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