

Solid State High Power Amplifier Systems

26.5-40GHz /47dB Gain/47 dBm Psat/220V AC

Model: TLPA26.5G40G-47-47-BC

TLPA26.5G40G-47-47-BC is a solid state high power amplifier systems provides high output power and high gain across the 26.5 to 40 GHz frequency range. The amplifier features a built-in 220V power supply, making it easy to use in most lab environments. This model features thermal self protection, preventing damage to the amplifier and providing added reliability.

Features:

- Frequency range: 26.5-40GHz
- Gain: 47dB Min
- Psat Output Power:47dBm Min
- Protection:Over TEM,over voltage, over current ,over VSWR protection
- 50 Ohm Matched Input / Output



Electrical Characteristics:

Parameter	Symbol	Min	Typ	Max	Units
Frequency range	BW	26.5-40			GHz
Power Gain	GP	47			dB
Gain flatness	ΔGL		± 5		dB
Output Psat	Psat	47			dBm
Spurious	Spur			-50	dBc
Harmonics	HAM			-30	dBc
Input VSWR	VSWR _{in}			2.0	:1
AC Voltage	Vac		220		V AC
Power Consumption	Pdiss	1400@Max			W
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

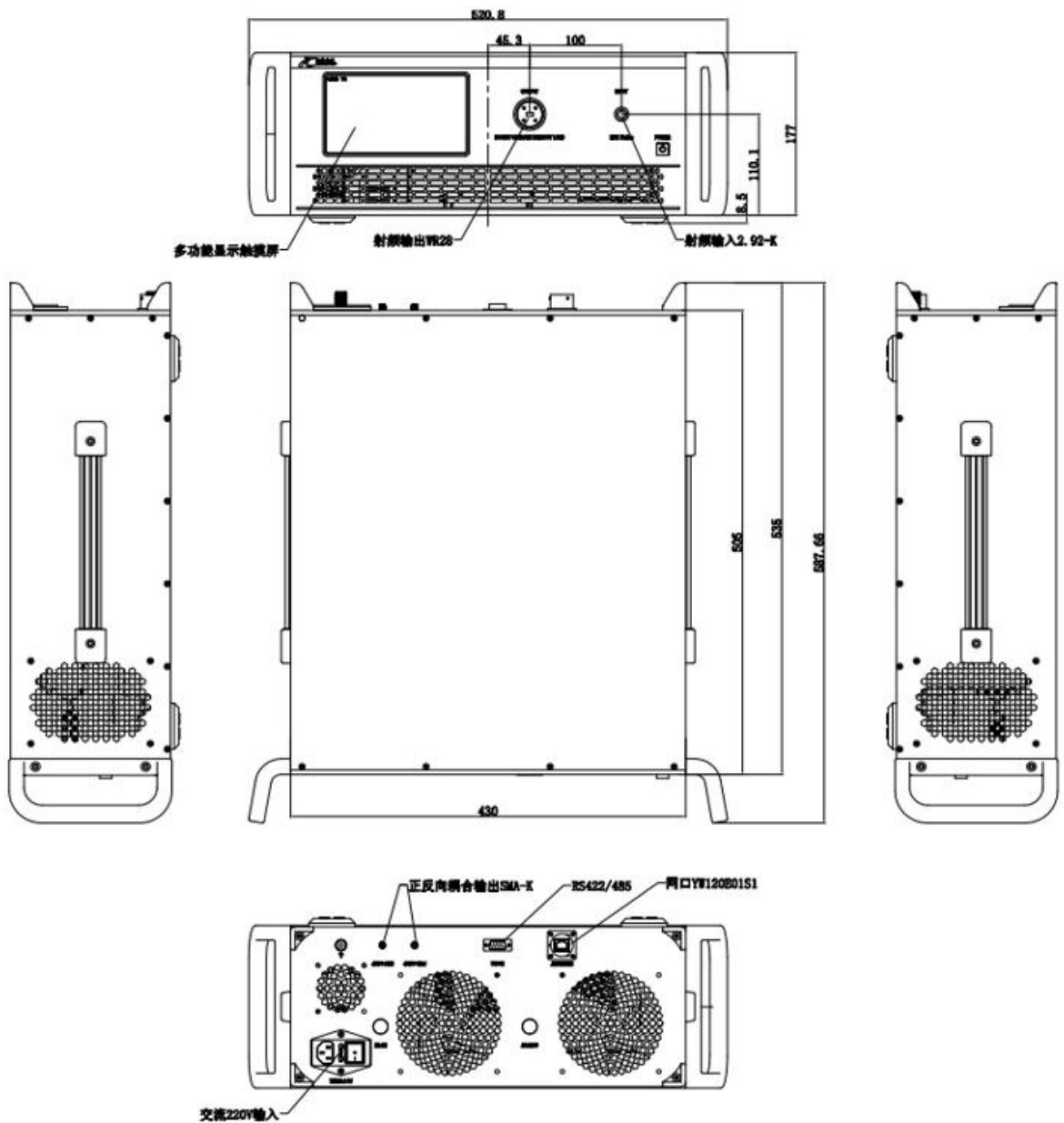
Parameter	Value	Units
Input/Output Connector	2.92 Female/WR-28	
Front Panel LCD Screen Display	7 Inch LCD Screen Display	
Communication Interfaces	RJ45/DB9	
Size	19 Inch 4U	mm
Weight	35	Kg

Absolute Maximum Ratings:

Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (Hbm)	Class 0, passed 150V

Outline Drawing:

Unit:mm



Key Features:

Parameter	Advantages
Remote Control	RS422/LAN
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	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	10,000			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			

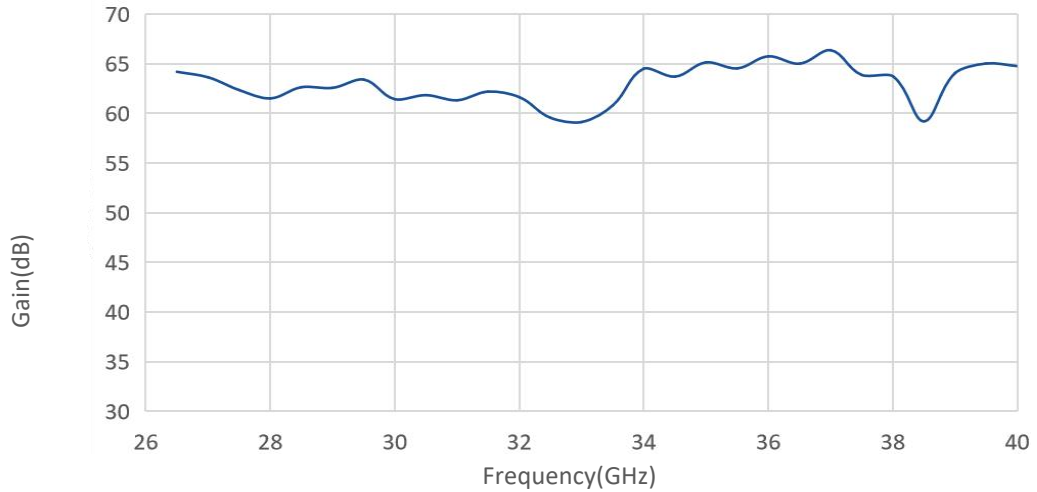
*Note: For a wider temperature range, please consult the manufacturer.

Ordering Information:

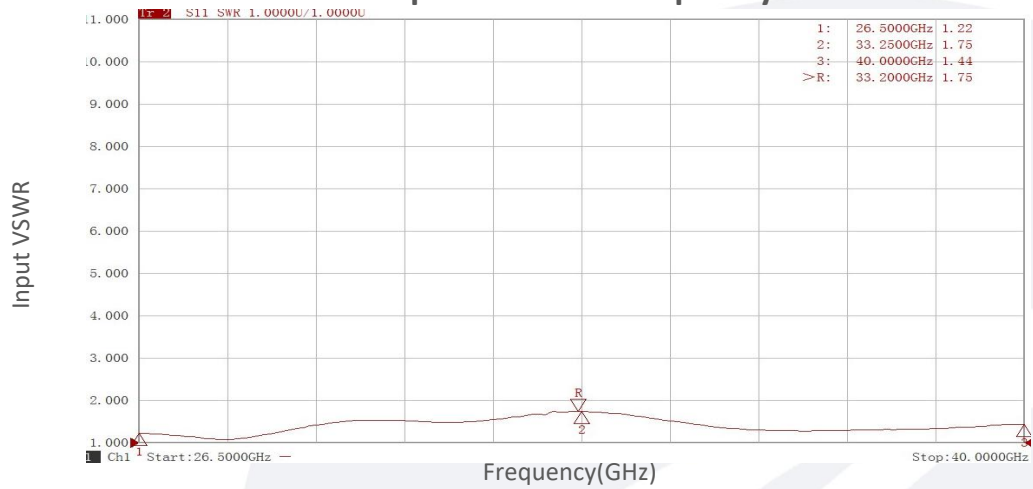
Base Number	Description	Revision
TLPA26.5G40G-47-47-BC	Solid State High Power Amplifier Systems 26.5-40GHz,Gain:47dB,Psat:47dBm,220V AC,Built in Fan Cooling	Rev.1.1

Typical Performance Data:

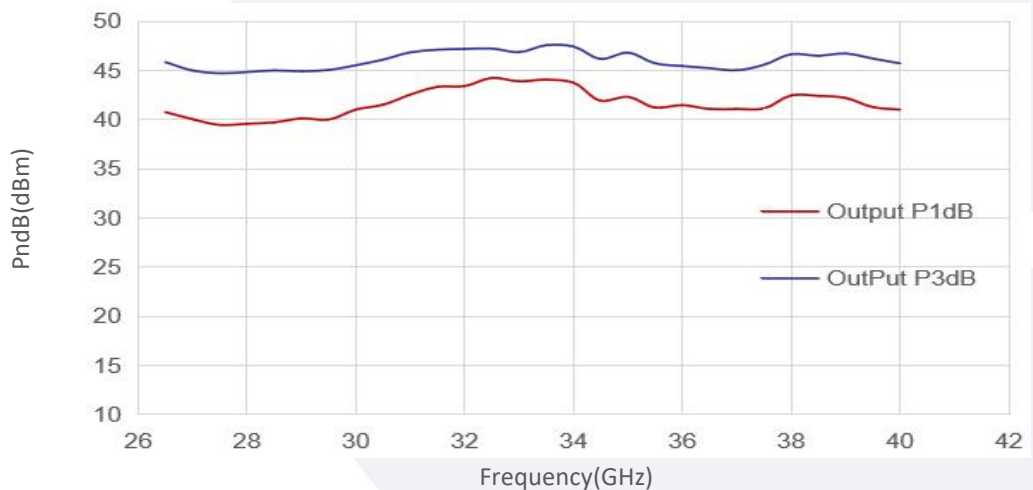
Gain vs Frequency



Input VSWR vs Frequency



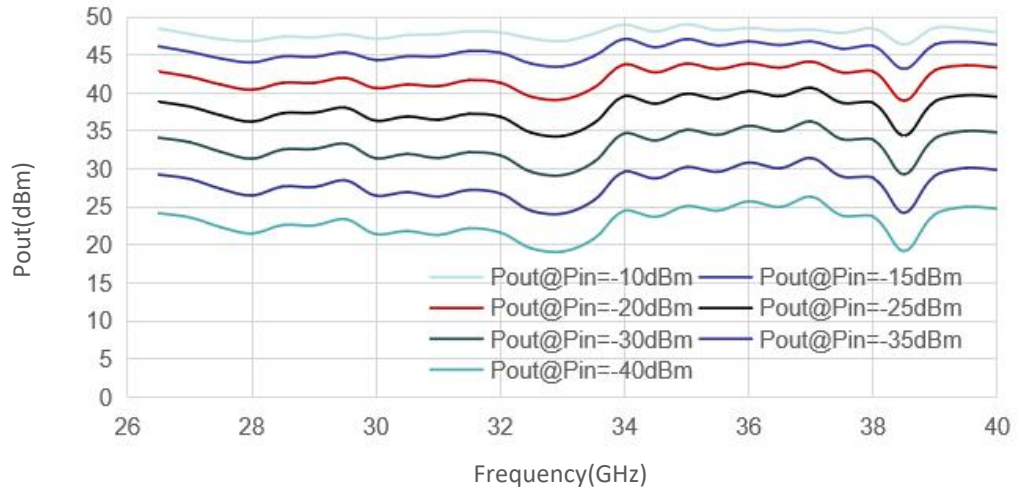
PndB vs Frequency



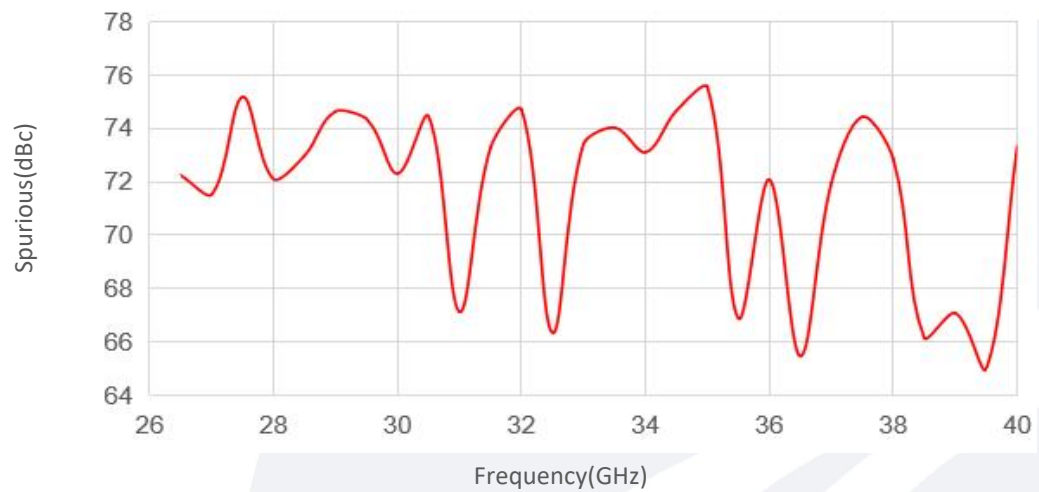
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

Pout@Equal_Pin



Spurious vs Frequency



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