

**Model:TLPA26.5G40G-50-50-BC**
**Solid State High Power Amplifier Systems  
 26.5-40GHz,Gain50dB,Psat:50 dBm**
**Feature:**

- Wide Band: 26.5-40GHz
- Gain: 50dB Min
- Psat Output Power:50dBm 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	50			dB
Gain flatness	$\Delta$ GL		$\pm 3$	$\pm 4$	dB
Gain adjust range	$\Delta$ GR		31.5		dB
Gain adjust range	$\Delta$ GS		0.5		dB
Psat	Psat	50			dBm
Spurious	Spur			-60	dBc
Input VSWR	VSWRin			2.0	:1
AC Voltage	Vac		220		V AC
AC Input Power	Pdiss	2800@Max			Watts
Impedance	I/O-IMP	50			Ohms

**Mechanical Specifications:**

Parameter	Value	Units
Input /Output Connector	2.92 Female/WR-28	
Network port Communication	RJ-45/DB9	
Size	5U*550 depth	mm
Weight	36.6	Kg

**Absolute Maximum Ratings:**

Parameter	Value
RF Input Power	10 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
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			

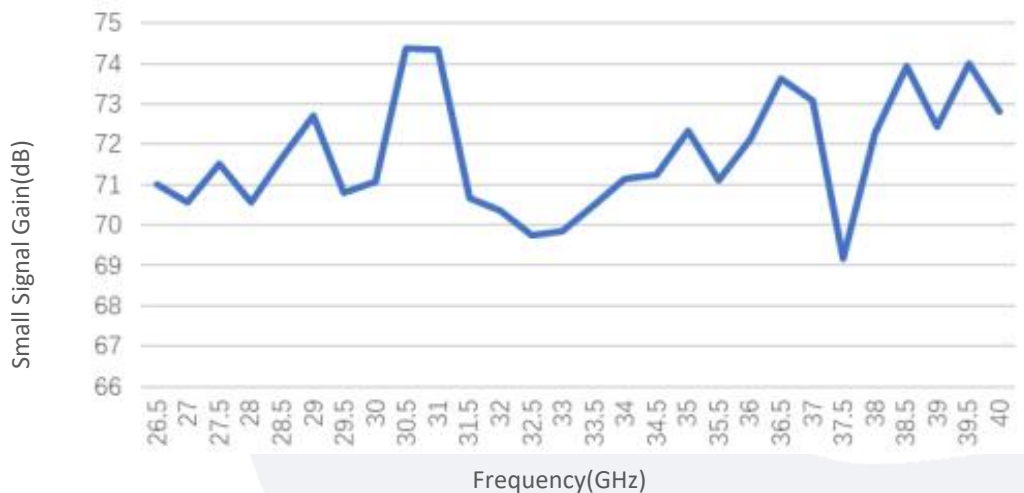
\*Note: For a wider temperature range, please consult the manufacturer.

### Ordering Information:

Part Number	Description	Revision
TLPA26.5G40G-50-50-BC	Solid State High Power Amplifier Systems 26.5-40GHz,Gain:50dB,Psat:50dBm,220V AC,Built in Fan Cooling	Rev.1.0

### Typical Performance Data:

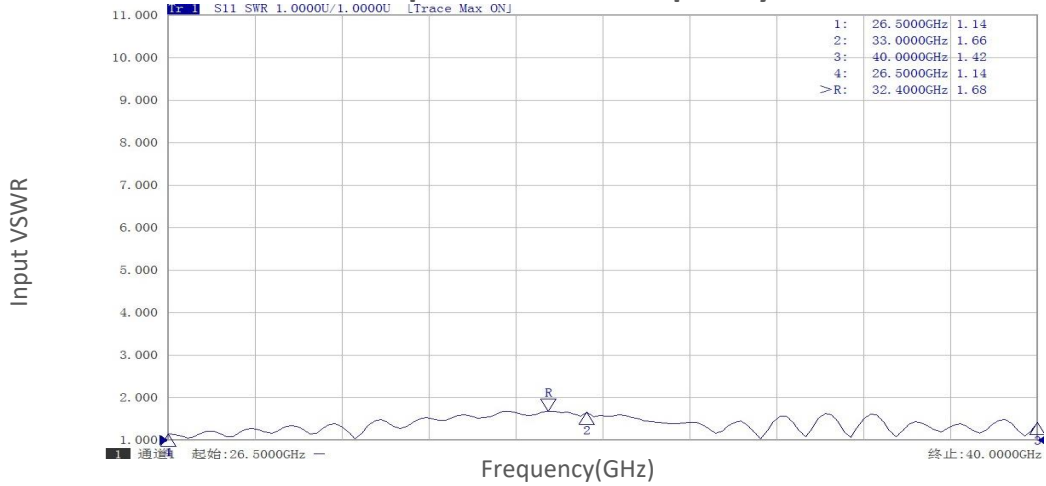
Small Signal Gain vs Frequency



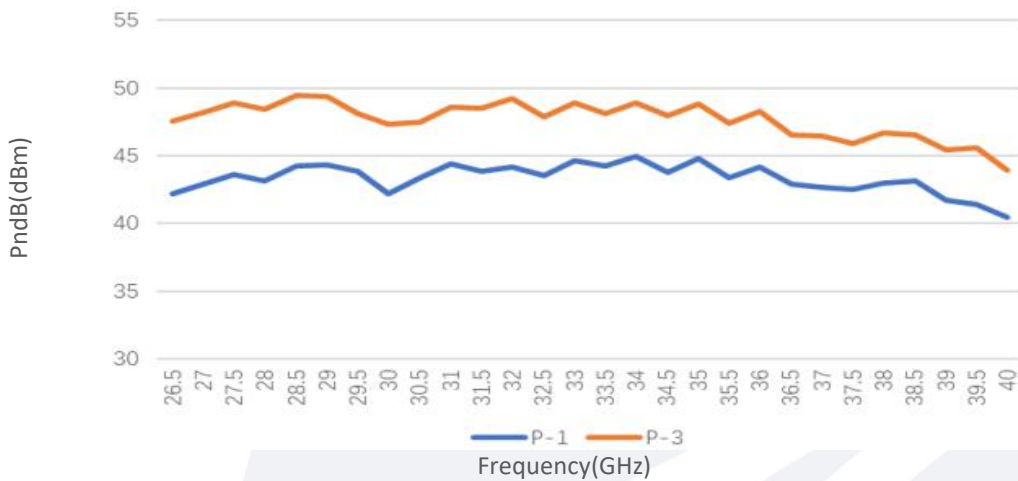
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

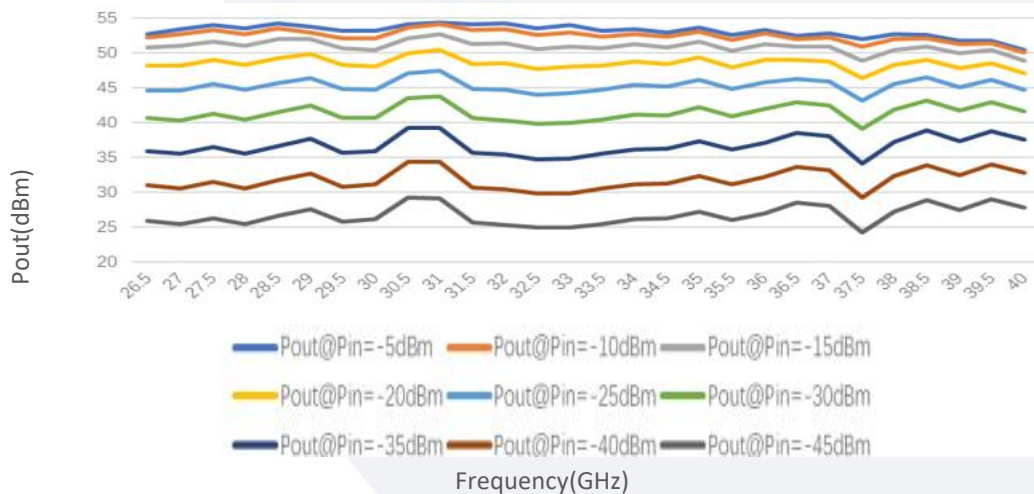
Input VSWR vs Frequency



PndB vs Frequency



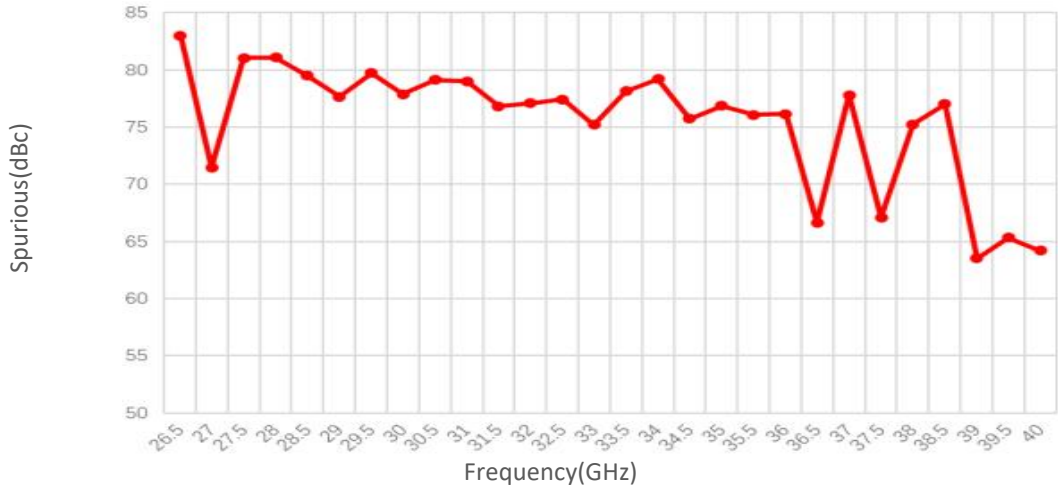
Pout@Equal\_Pin



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Typical Performance Data:

Spurious vs Frequency



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