

Model:TLPA24G30G-46-46-BC
**Solid State High Power Amplifier Systems
 24-30GHz,Gain:46dB,Psat:46dBm,220V AC**
Feature:

- Wide Band: 24-30GHz
- Gain: 46dB Min
- Psat Output Power:46dBm 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	24-30			GHz
Gain	GP	46			dB
Gain flatness	Δ GL		± 3.5		dB
Output Psat	Psat	46			dBm
Spurious	Spur			-50	dBc
Harmonics	HAM			-20	dBc
Input VSWR	VSWRin			2	:1
AC Voltage	Vac	220			V AC
Impedance	I/O-IMP	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input/Output Connector	N Female/WR-34	
Communication Interfaces	RJ45/DB9	
Size	449.2*570*132.5	mm
Weight	≤ 25	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	RS422/LAN
Protection functions	1,Over TEM 2,Over voltage 3,Over current protection 4,Over VSWR
Control functions	1, Power setting On/Off 2,Psat Adjust
Cooling system	Built in Cooling system,forced air cooling

Environmental Conditions:

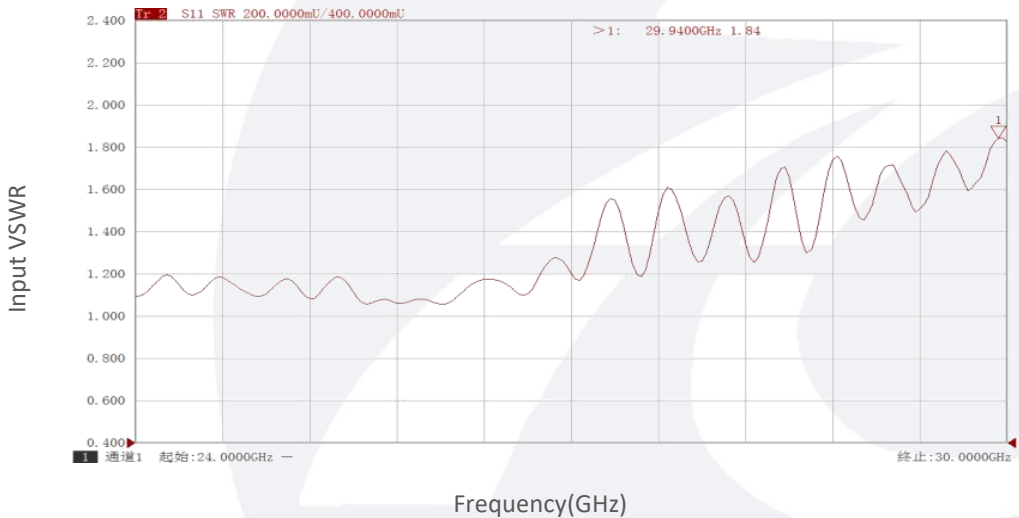
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+50	°C
Non-operating Temperature	-40		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD- 810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA24G30G-46-46-BC	Solid State High Power Amplifier Systems 24-30GHz,Gain:46dB,Psat:46dBm,220V AC,Built in Fan Cooling	Rev.1.0

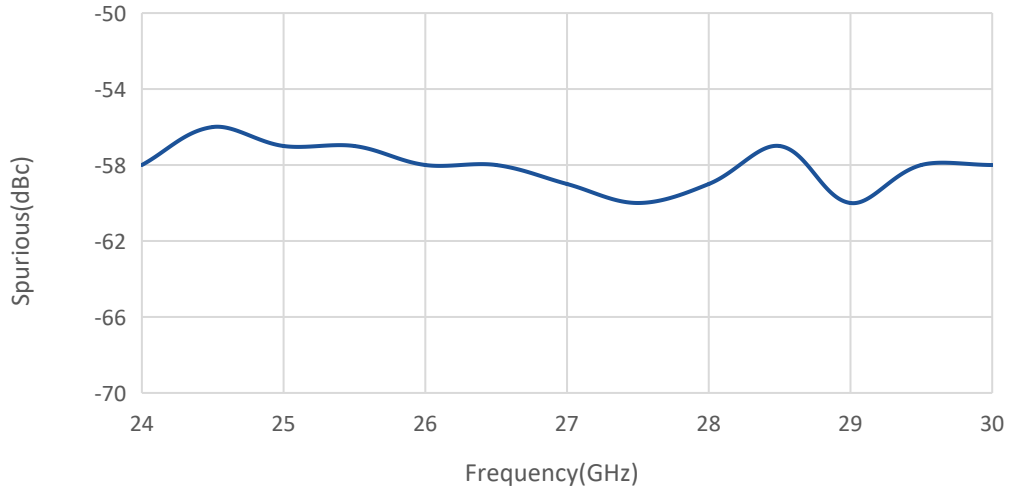
Typical Performance Data:

Input VSWR vs Frequency

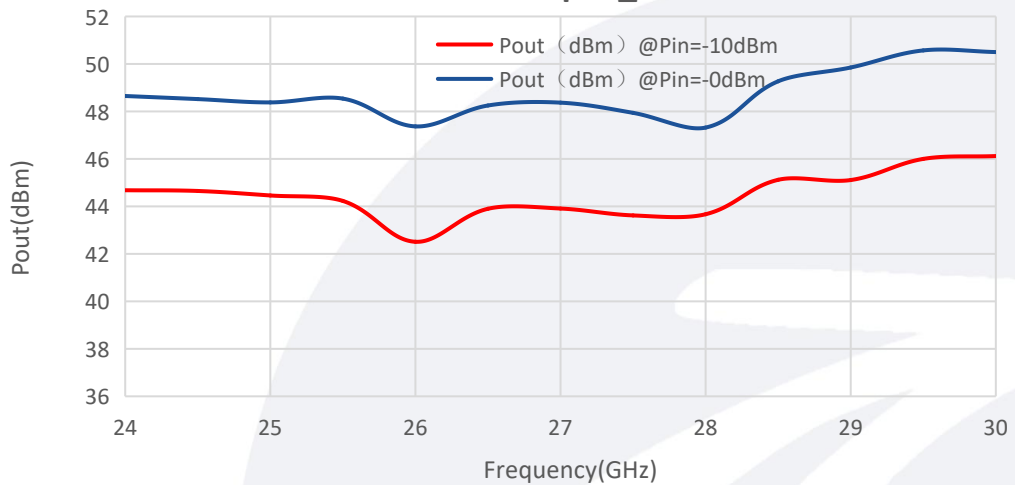


Typical Performance Data:

Spurious vs Frequency



Pout@Equal_Pin



Gain vs Frequency

