

Model:TLPA26.5G40G-40-40

Power Amplifier

26.5-40GHz,Gain:40dB,Psat:40dBm

Feature:

- Ultra Wide Band:26.5-40GHz
- Gain:40dB Min
- Psat Output Power:40dBm Min
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Electrical Specifications:

Parameter	Min	Typ	Max	Units
Frequency range	26.5-40			GHz
Gain	40			dB
Gain Flatness		±4.5		dB
Output Psat	40	41		dBm
Spurious			-50	dBc
Input VSWR		2	2.5	:1
DC Voltage		+22	+24	V DC
DC Supply Current			7.5	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Power Interface	SUB-7W2	
Size	200*100*23	mm
Weight	3	Kg

Absolute Maximum Ratings:

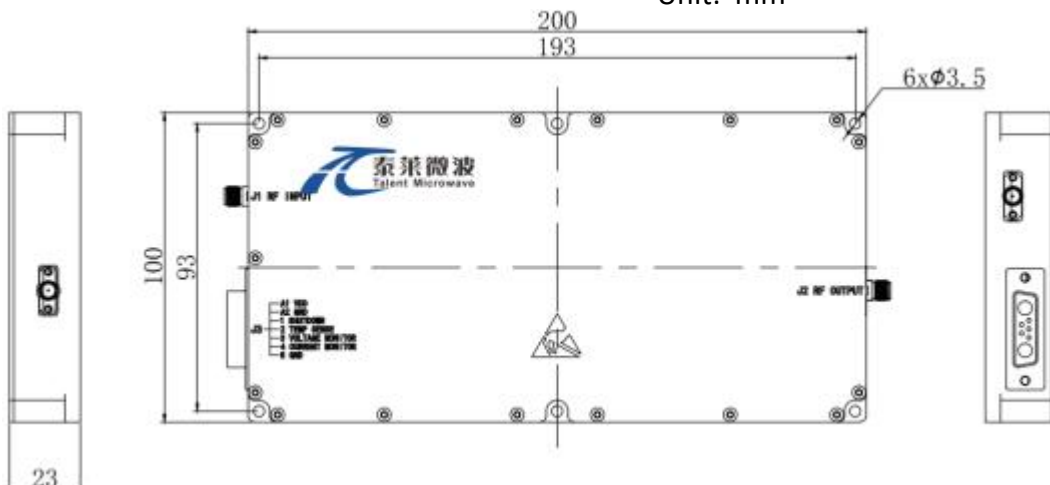
Parameter	Value
Supply Bias Voltage	+24V
RF Input Power	10dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



SUB-7W2 Define

Pin	Function
A1	+20V
A2	GND
PIN1	TTL(high for open, low for close)
PIN2	Current Monitor
PIN3	Tempert ure Monitor
PIN4/5	GND

*****Heat Sink Required During Operation**



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

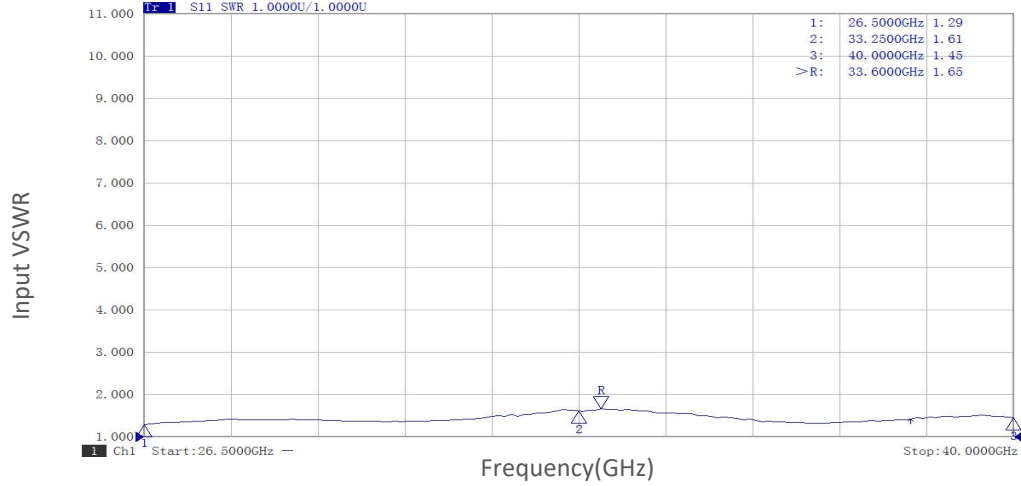
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+40	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

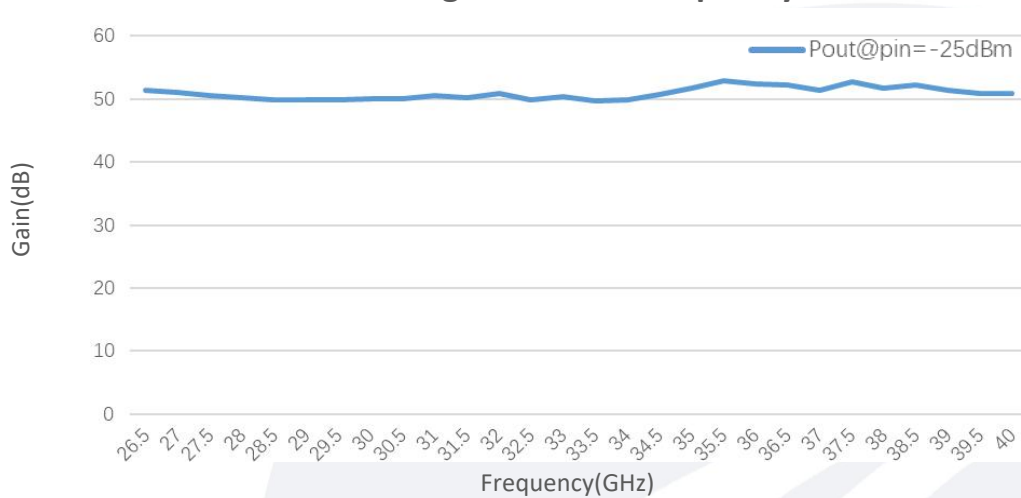
Part Number	Description	Revision
TLPA26.5G40G-40-40	Power amplifier 26.5-40GHz,Gain 40dB,Psat:40dBm,+24V DC,Without Heatsink.	Rev.1.1
TLPA26.5G40G-40-40-HS	Power amplifier 26.5-40GHz,Gain 40dB,Psat:40dBm,+24V DC,With Heatsink.	Rev.1.1

Typical Performance Data:

Input VSWR vs Frequency



Small Signal Gain vs Frequency



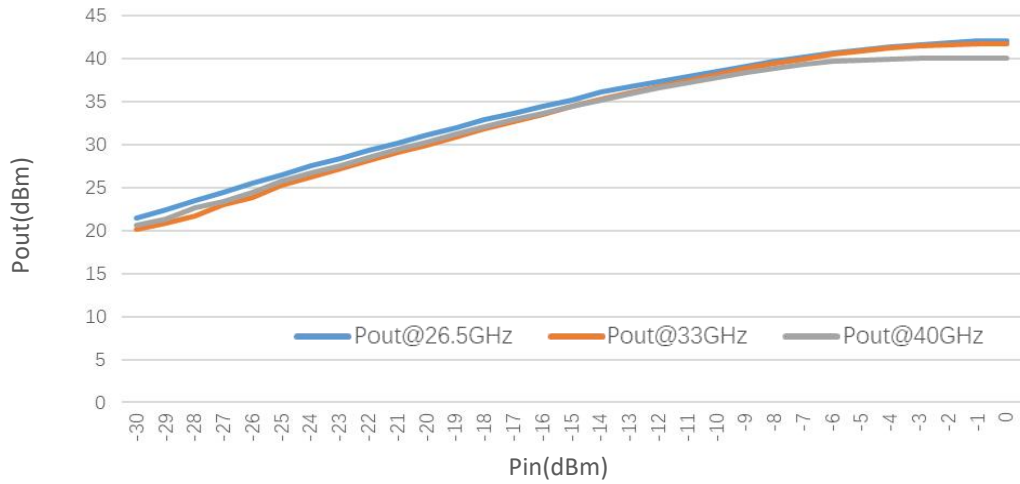
P1dB vs Frequency



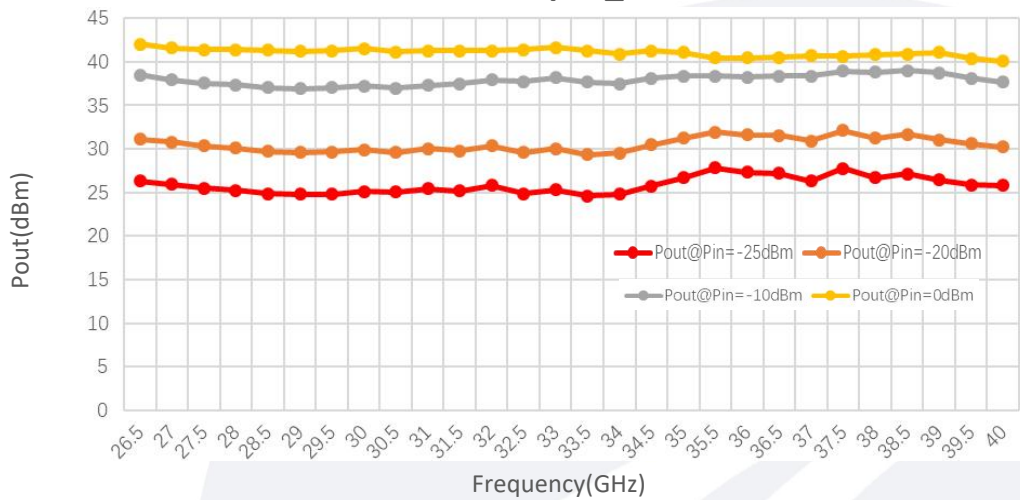
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

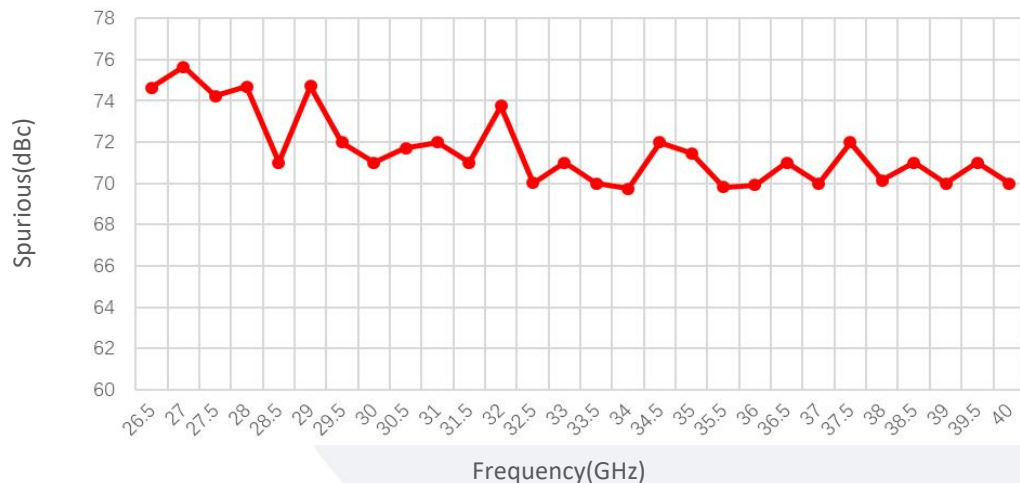
Pout@Pin



Pout@Equal_Pin



Spurious vs Frequency



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