

Model:TLPA26.5G40G-47-47

Power Amplifier

26.5-40GHz,Gain:47dB,Psat:47dBm

Feature:

- Ultra Wide Band:26.5-40GHz
- Gain:47dB Min
- Psat Output Power: 47dBm 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	47			dB
Gain Flatness		±4.5		dB
Output Psat	47			dBm
Spurious			-50	dBc
Input VSWR		2	2.5	:1
DC Voltage		+22	+24	V DC
DC Supply Current			30	A
Impedance	50			Ohms

Mechanical Specifications:

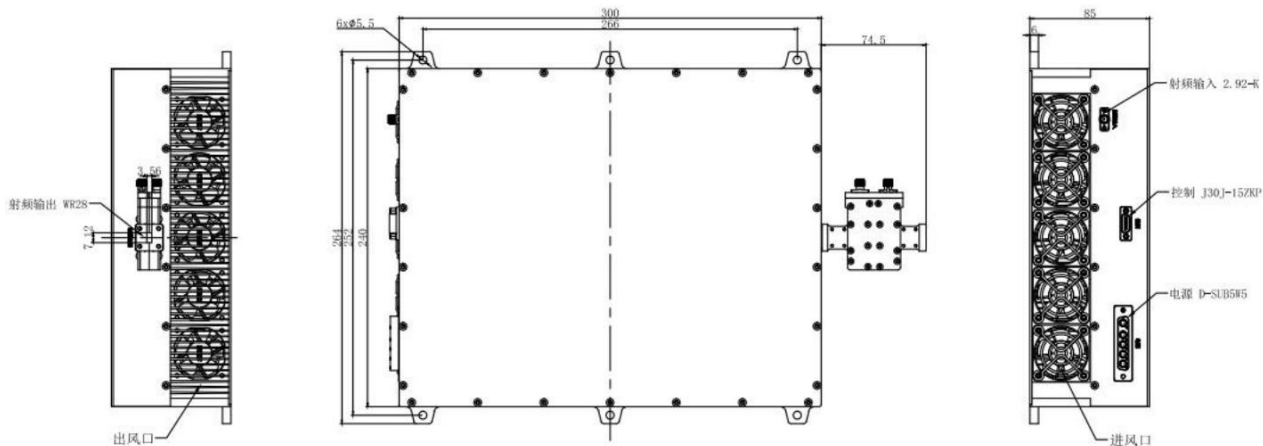
Parameter	Value	Units
Input /Output Connector	2.92 Female/WR28	
DC Power Interface	SUB-2W2	
Control and Test Connector	J30J-9ZKP	
Forward/Reverse Coupling Connector	2.92 Female/2.92 Female	
Size	300*264*85	mm
Weight	10	Kg

Absolute Maximum Ratings:

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

Outline Drawing:

Unit: Inch



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



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

SUB-2W2 Define	
Pin	Function
A1	+24V
A2	GND
Pin1	TTL(high for open,low for close)
Pin2	Current Monitor
Pin3	Temperature Monitor
Pin4	0.5dB Attenuation
Pin5	1dB Attenuation
Pin6	2dB Attenuation
Pin7	4dB Attenuation
Pin8	8dB Attenuation
Pin9	16dB Attenuation
Pin10-15	GND

Environmental Conditions:

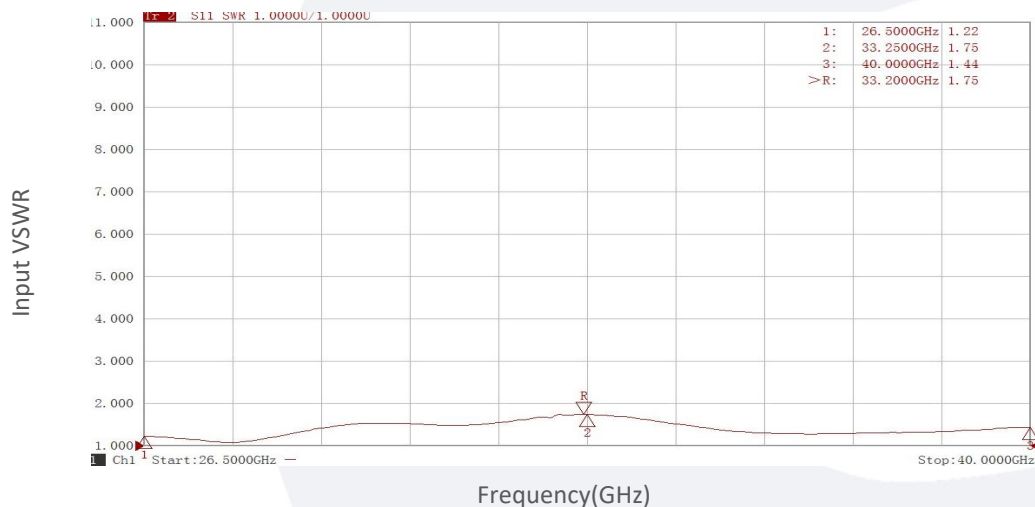
Parameter	Min	Typ	Max	Units
Operating Temperature	0		+40	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPA26.5G40G-47-47	Power amplifier 26.5-40GHz,Gain:47dB,Psat:47dBm, +24V DC,Without Heatsink	Rev.1.1
TLPA26.5G40G-47-47-HS	Power amplifier 26.5-40GHz,Gain:47dB,Psat:47dBm, +24V DC,With Heatsink	Rev.1.1

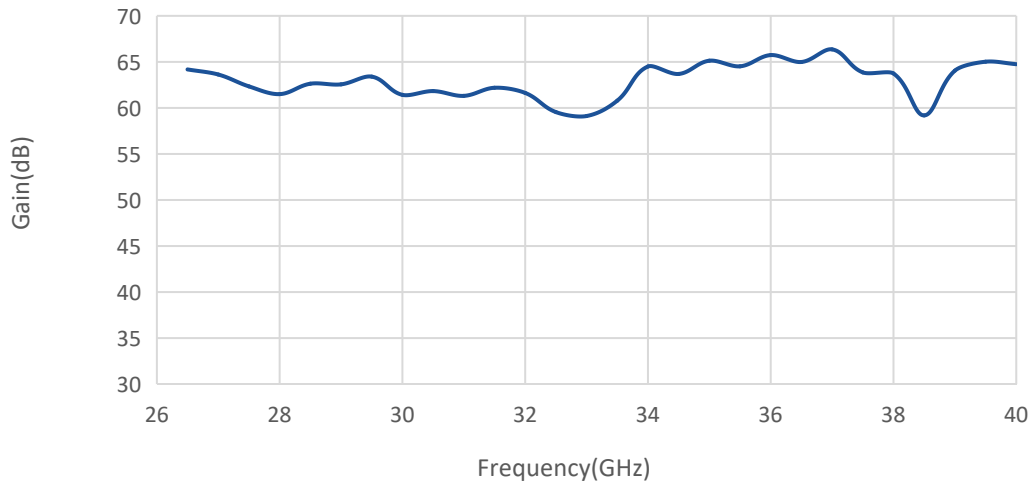
Typical Performance Data:

Input VSWR vs Frequency

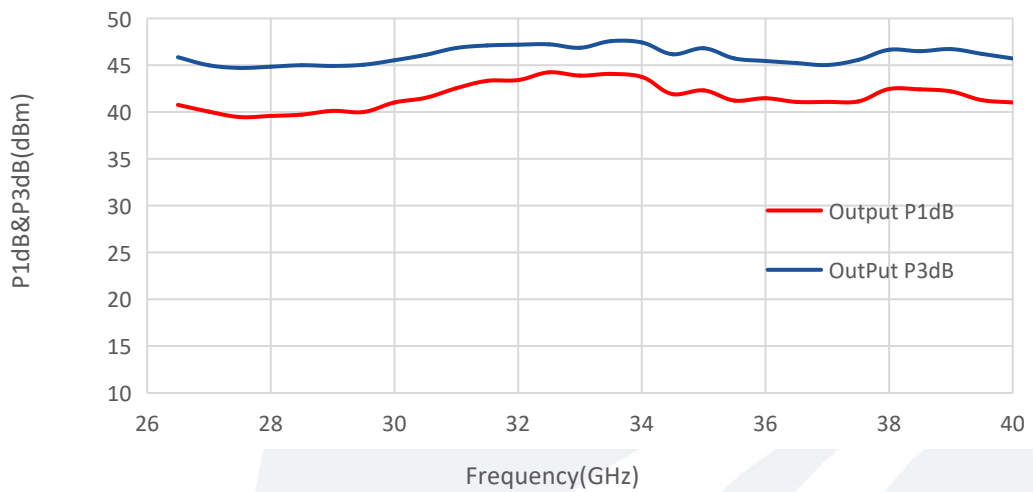


Typical Performance Data:

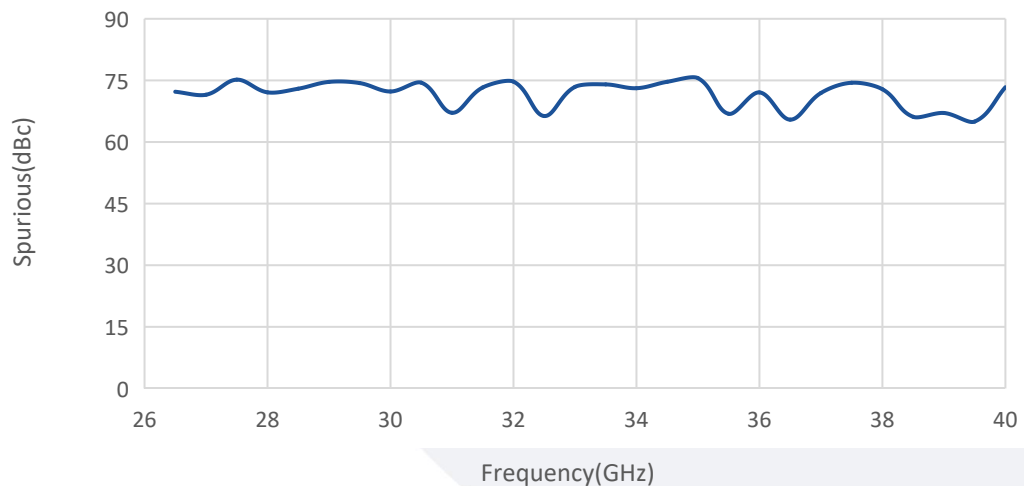
Gain vs Frequency



P1dB&P3dB vs Frequency

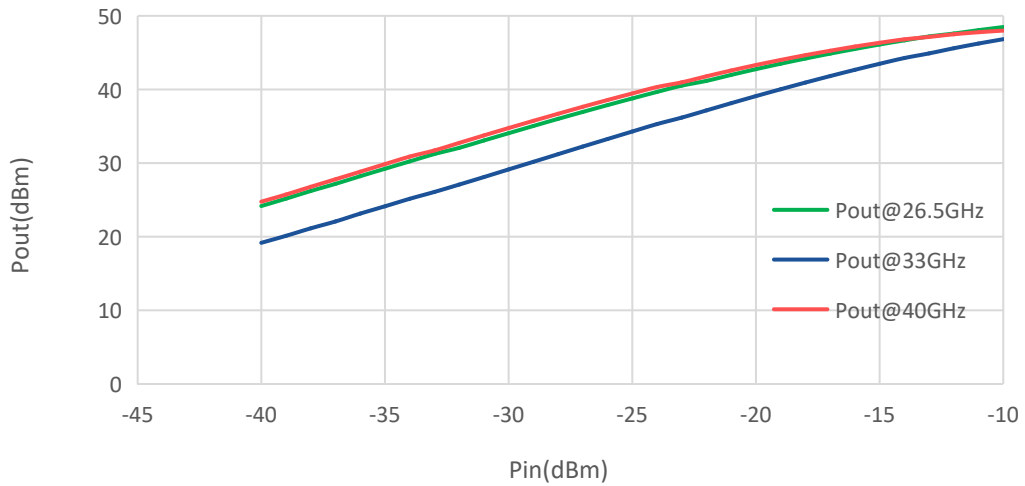


Spurious vs Frequency



Typical Performance Data:

Pout@Pin



Pout@Equal_Pin

