

Model:TLPA18G26.5G-47-47

Power Amplifier 18-26.5GHz,Gain:47dB,Psat:47dBm

Feature:

- Ultra Wide Band: 18-26.5GHz
- 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	18-26.5			GHz
Gain	47	50		dB
Gain Flatness		±3.5		dB
Output Psat	47			dBm
Spurious			-50	dBc
Harmonics			-15	dBc
Input VSWR		2	2.5	:1
DC Voltage		+24		V DC
DC Supply Current			25	A
Impedance	50			Ohms

Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92 Female/2.92 Female	
DC Power Interface	SUB-7W2	
Size	300*264*85	mm
Weight	10	Kg

Absolute Maximum Ratings:

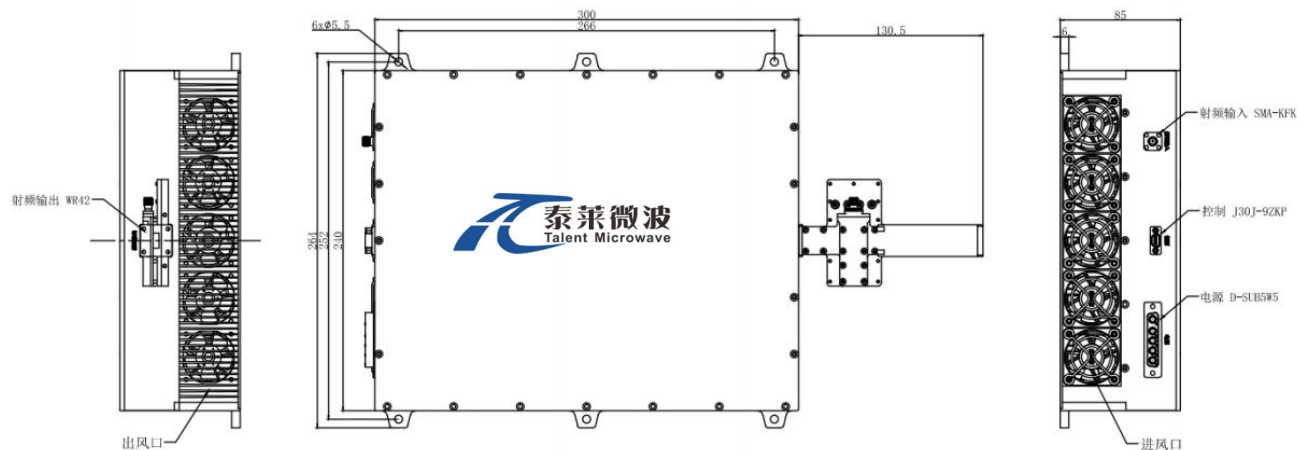
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	10dBm
ESD sensitivity (Hbm)	Class 0, passed 150V



Available 220V System
Benchtop Amplifier

Outline Drawing:

Unit: mm



SUB-7W5 Define

Pin	Function
A1	+24V
A2	GND
Pin1-5	NC



OBSERVE PRECAUTIONS
ELECTROSTATIC SENSITIVE
DEVICES

Environmental Conditions:

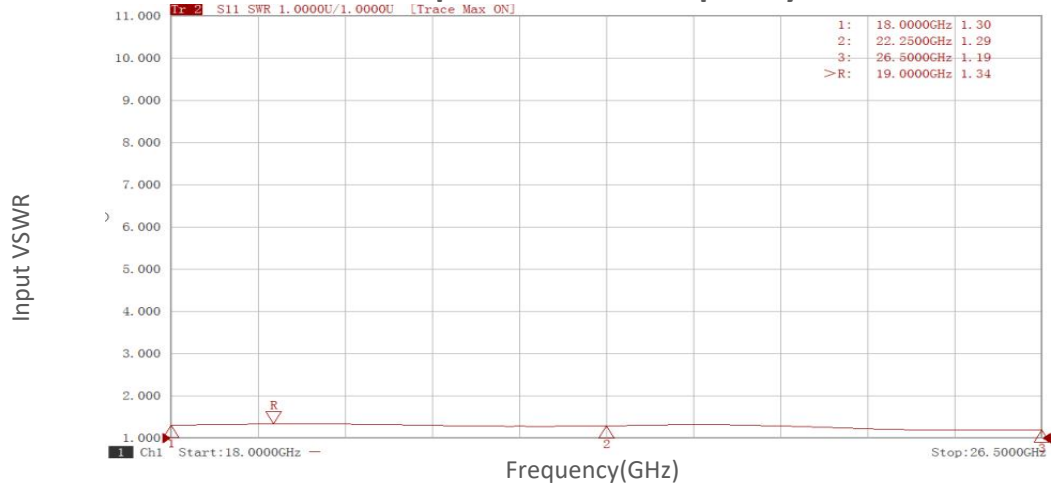
Parameter	Min	Typ	Max	Units
Operating Temperature	-20		+40	°C
Non-operating Temperature	-45		+65	°C
Relative humidity		95		%
Altitude	50,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

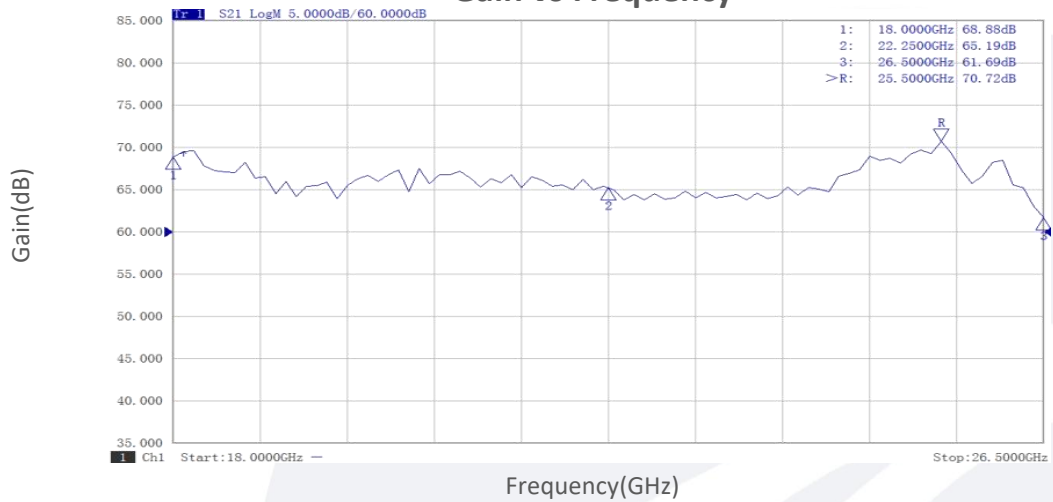
Part Number	Description	Revision
TLPA18G26.5G-47-47	Power amplifier 18-26.5GHz,Gain:47dB,Psat:47dBm,+24V DC,Without Heatsink.	Rev.1.1

Typical Performance Data:

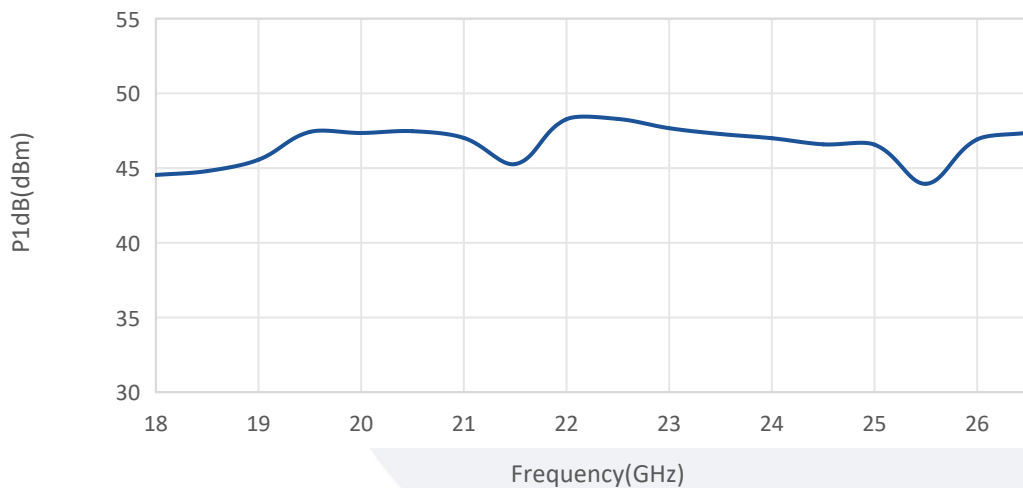
Input VSWR vs Frequency



Gain vs Frequency



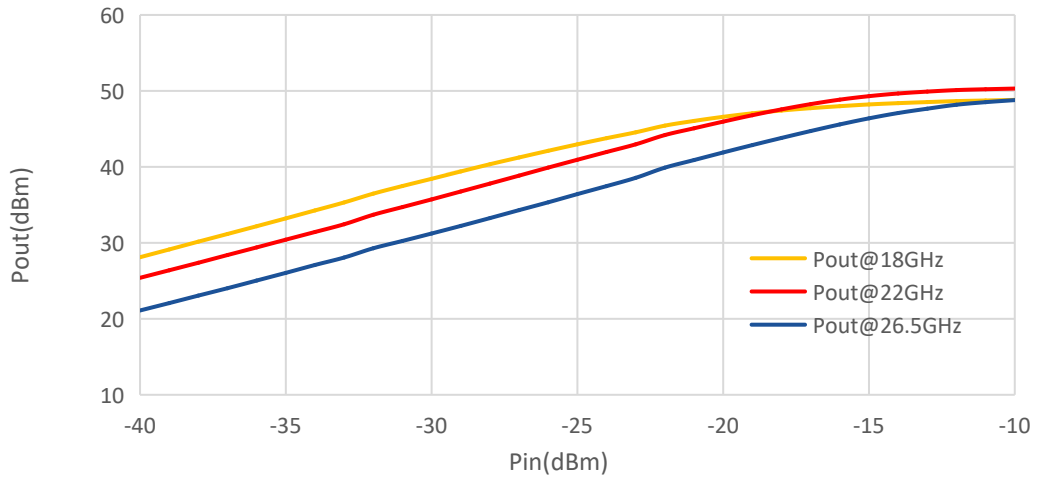
P1dB vs Frequency



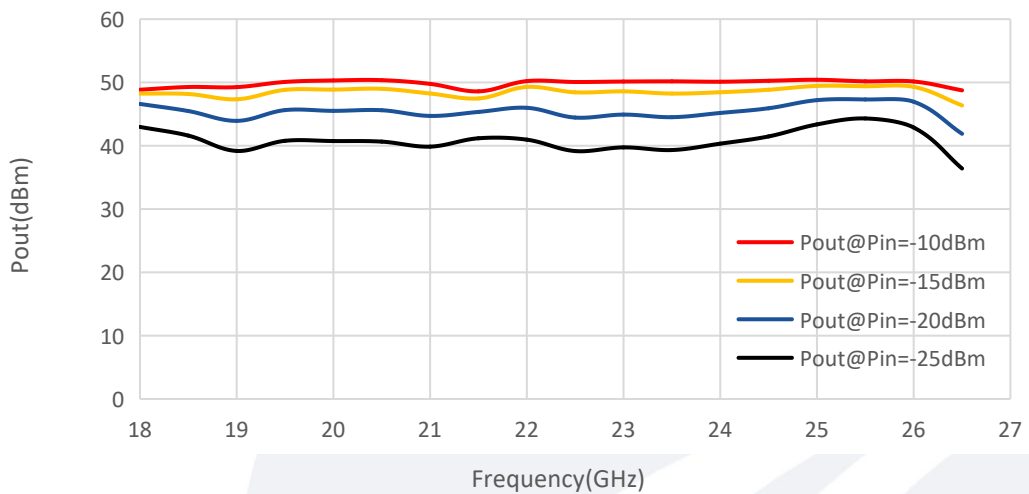
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

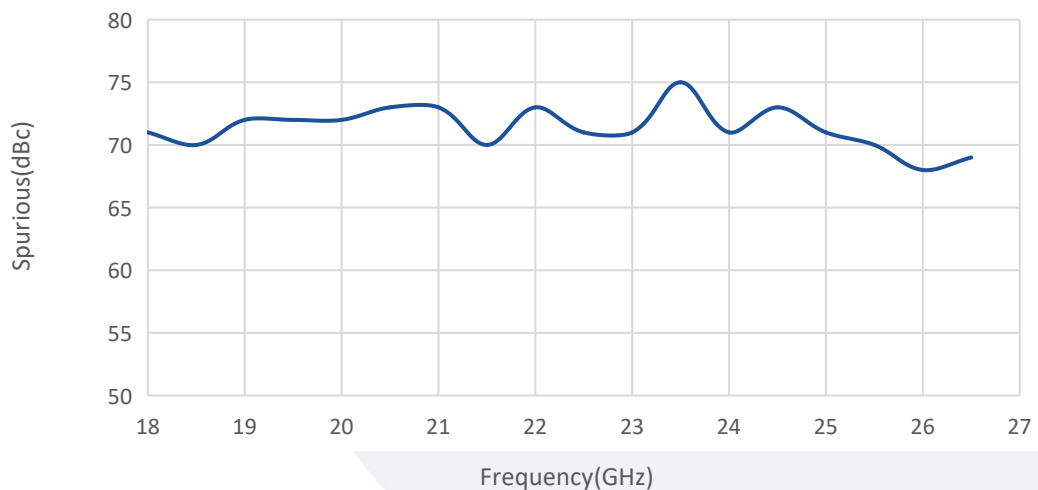
Pout@Pin



Pout@Equal_Pin



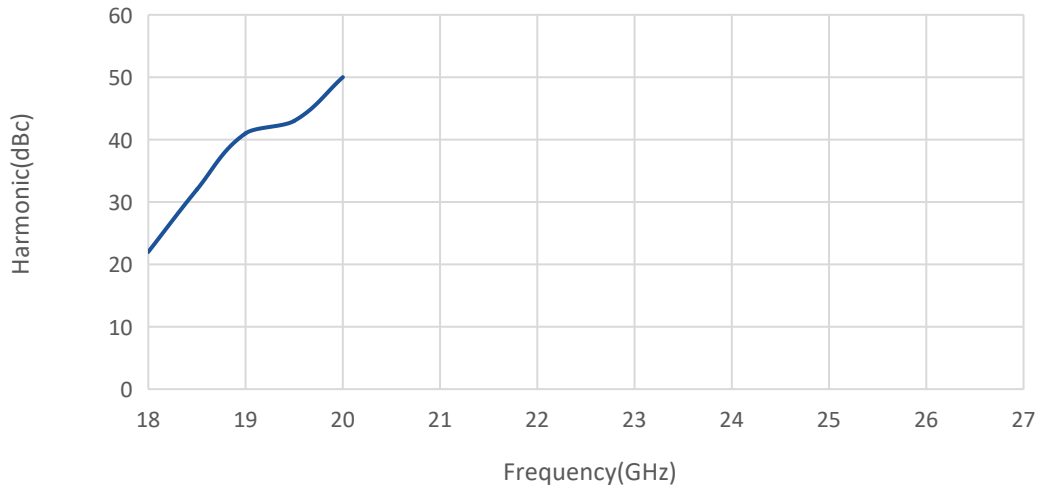
Spurious vs Frequency



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:

Harmonic 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.