Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Power Amplifier

18-26.5GHz/40dB Gain/40dBm Psat

Model: TLPA18G26.5G-40-40

TLPA18G26.5G-40-40 is a power amplifier with a typical small signal gain of 40 dB and a nominal Psat of 40 dBm across the frequency range of 18 to 26.5 GHz. The DC power requirement for the amplifier is +22 VDC/1.8 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Features:

- Frequency range: 18-26.5GHz
- Gain: 40dB Typ
- Output Power Psat: 40dBm Typ
- Good Power and Gain Flatness
- 50 Ohm Matched Input / Output

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	18		26.5	GHz
Small Signal Gain		40		dB
Gain Flatness		±2.5		dB
Output P1dB	35			dBm
Output Psat		40		dBm
Spurious			-50	dBc
Harmonic			-20	dBc
Input VSWR			2	:1
DC Voltage		22		V DC
DC Supply Current		1.8		A
Impedance		50		Ohms

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Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	2.92mm Female/2.92mm Female	
DC Bias	Solder Pin	
Size	60*60*11(Without Heatsink) 150*140*72.5(With Heatsink)	mm

Absolute Maximum Ratings:

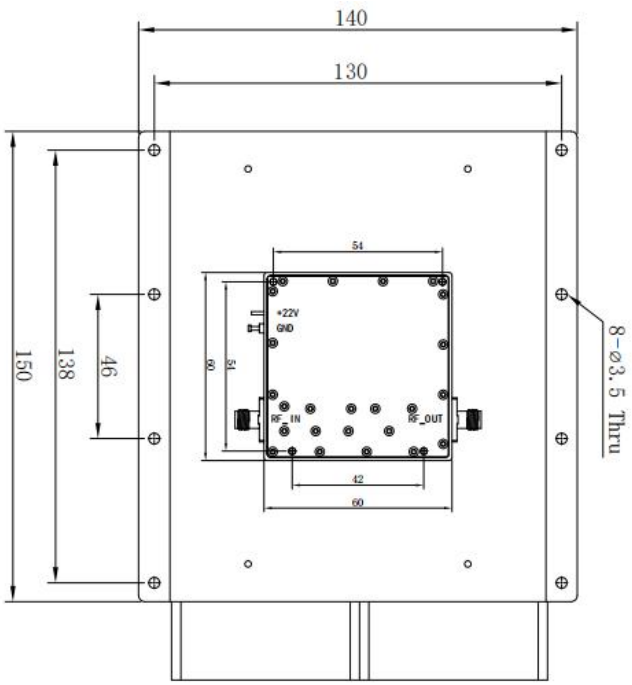
Parameter	Value
Supply Bias Voltage	+22 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

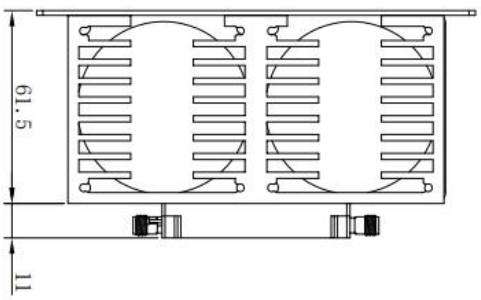


Simple 220V System
Available SAC option

Outline Drawing:

Unit:mm; Tolerance:±0.1mm







ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

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Environmental Conditions:

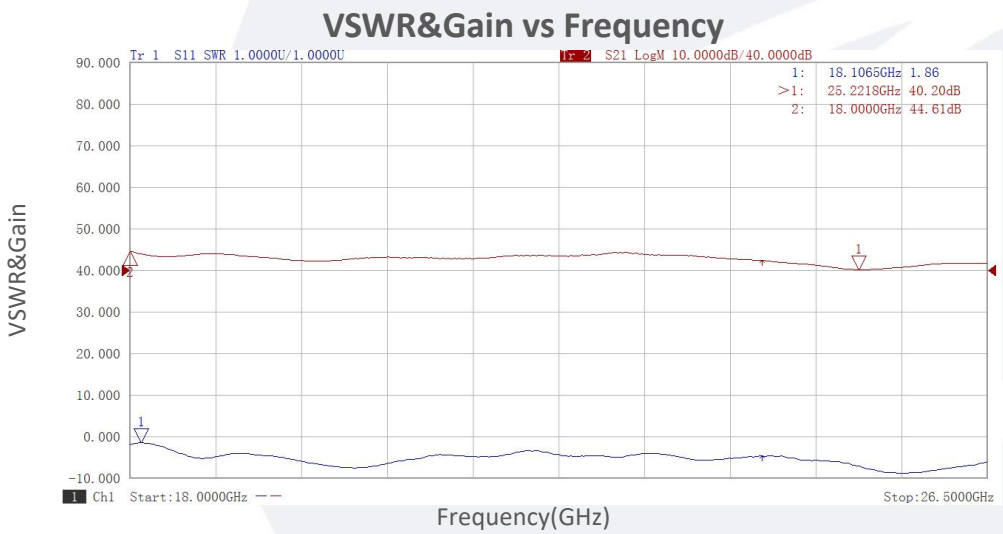
Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+60	℃
Non-operating Temperature*	-50		+70	℃
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

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

Ordering Information:

Base Number	Description	Revision
TLPA18G26.5G-40-40	Power amplifier 18-26.5GHz, Gain:40dB,Psat:40dBm,+22V DC,Without Heatsink	Rev.1.0
TLPA18G26.5G-40-40-HS	Power amplifier 18-26.5GHz, Gain:40dB,Psat:40dBm,+22V DC,With Heatsink	Rev.1.0

Typical Performance Data:

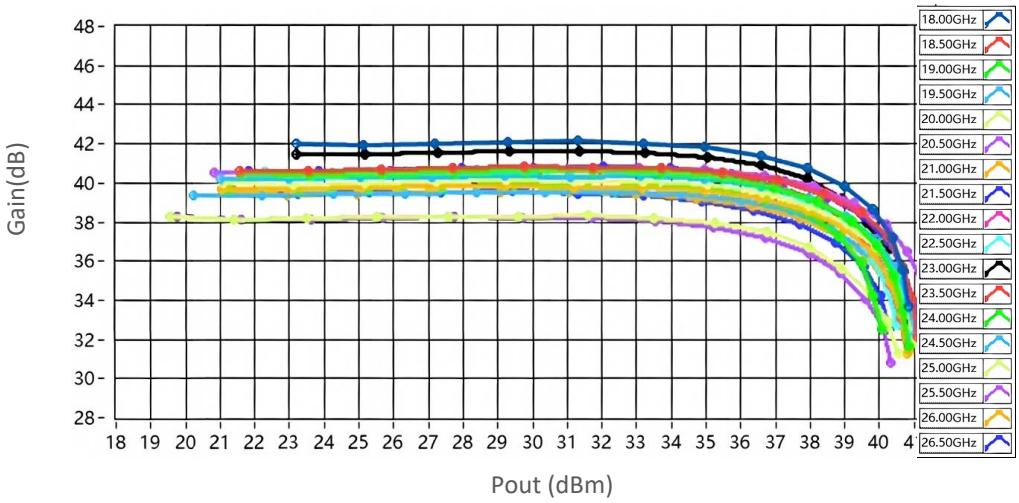


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

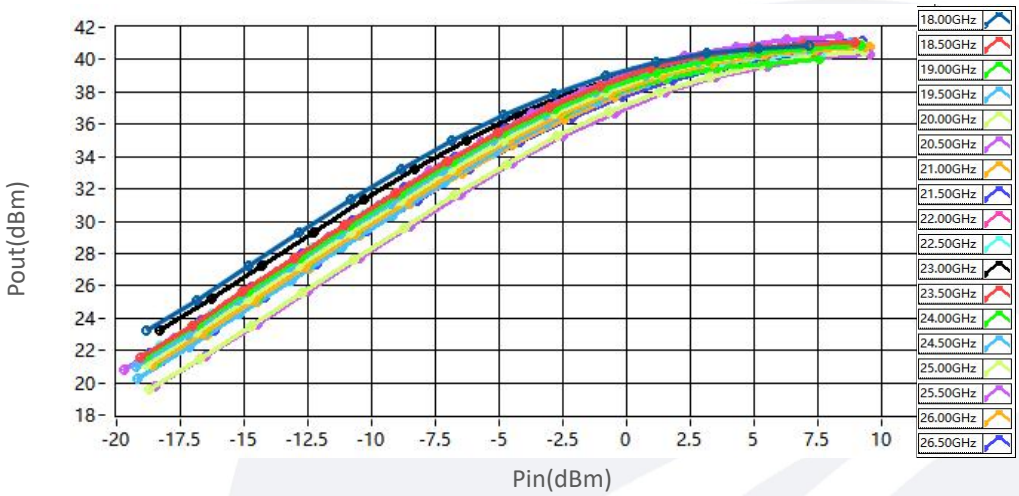
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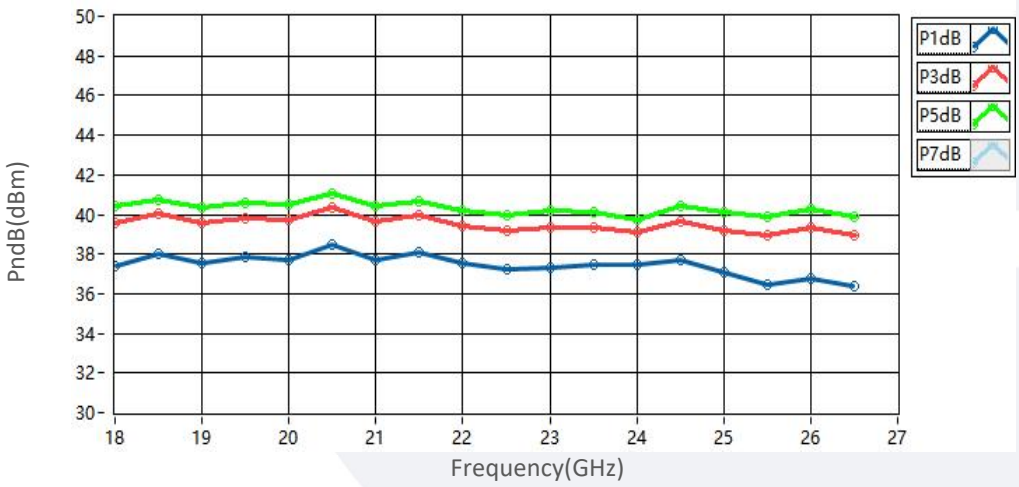
Gain vs Output Power



Pout vs Pin



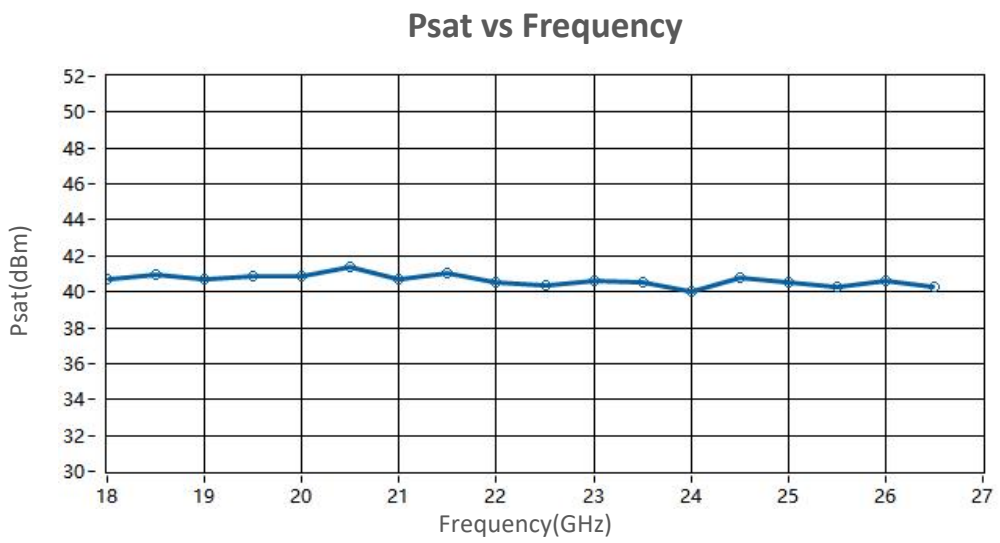
PndB vs Frequency

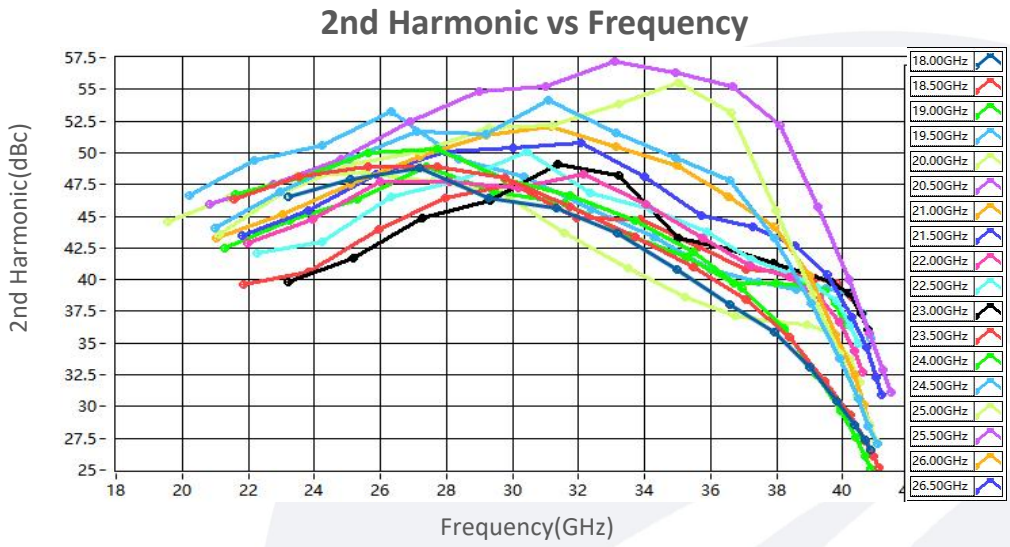


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