LPA218-5047
Power Amplifier
2-18GHz /50dB Gain/ 47 dBm Psat
sales@lauftex.ru | lauftex.ru

LPA218-5047 is a power amplifier with power gain of 50 dB and a nominal Psat of 47 dBm across the frequency range of 2 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/1400W. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with N female.

Features:

- Ultra Wide Band: 2-18 GHz
- Gain: 50 dB Min
- Output Power Psat: 47 dBm Min
- 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		2-18		GHz
Power Gain	50			dB
Gain Flatness		±3	±5	dB
Output P1dB		40		dBm
Output Psat	47			dBm
Spurious@Pout=47dBm			-60	dBc
Harmonic@Pout=47dBm		-10	-15	dBc
Input VSWR			2	:1
DC Voltage		28		V DC
Power Consumption			600	W
Impedance		50		Ohms

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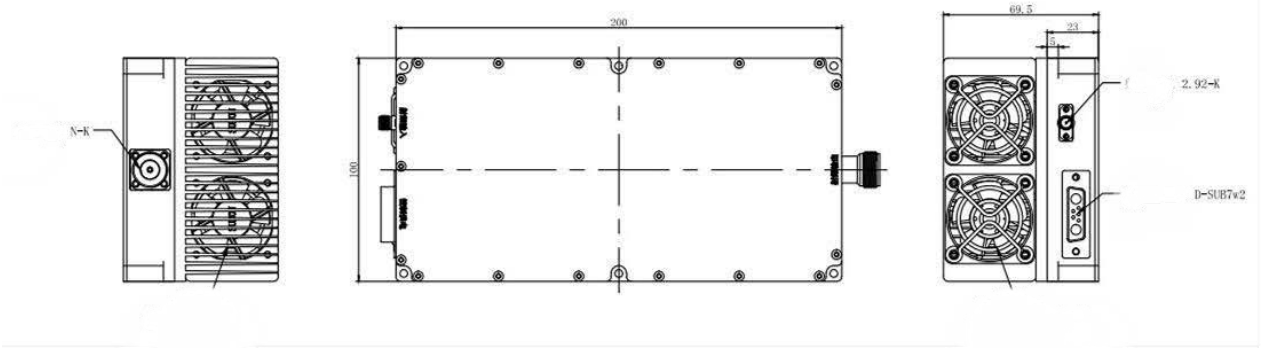
Mechanical Specifications:

Parameter	Value	Units
Input /Output Connector	SMA Female/N Female	
DC Bias	SUB-7W2	A1:+28V A2:GND Pin1~5:NC
Size	200*100*23(Without Heatsink) 200*100*69.5(With Heatsink)	mm
Weight	≤4	Kg

Absolute Maximum Ratings

Parameter	Value
Supply Bias Voltage	+28 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

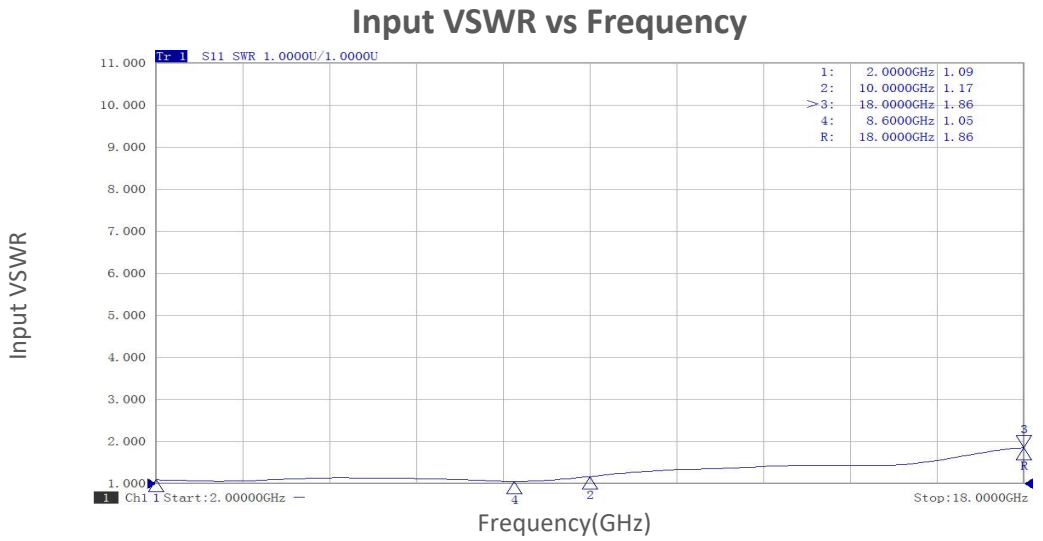


Environmental Conditions:

Parameter	Min	Typ	Max	单位 Units
Operating Temperature*	-20		+50	℃
Non-operating Temperature*	-30		+60	℃
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.

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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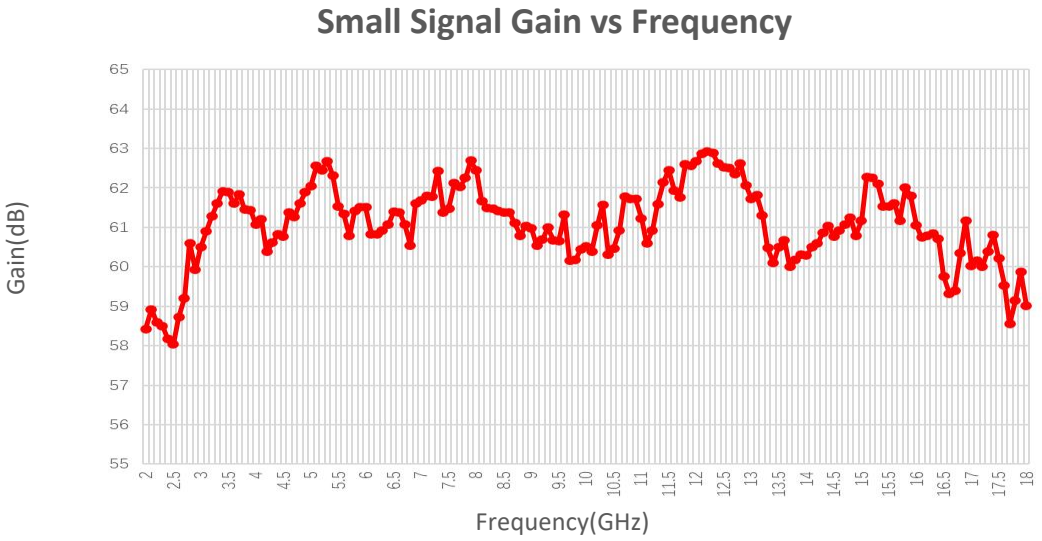

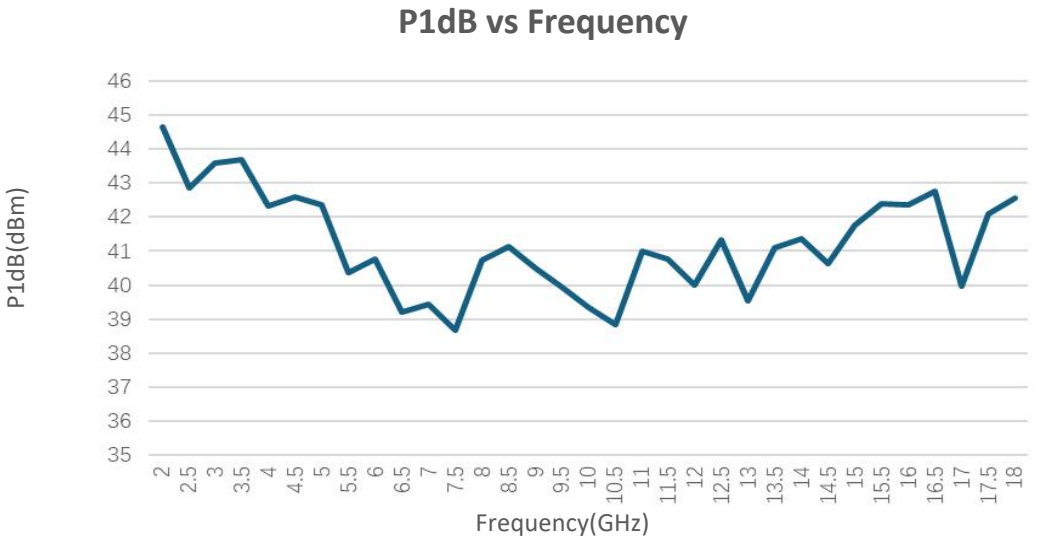

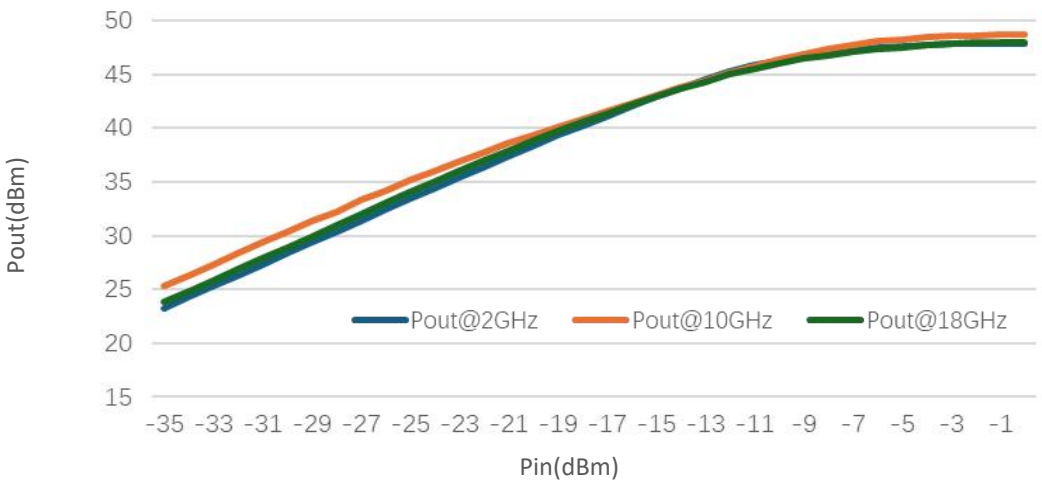

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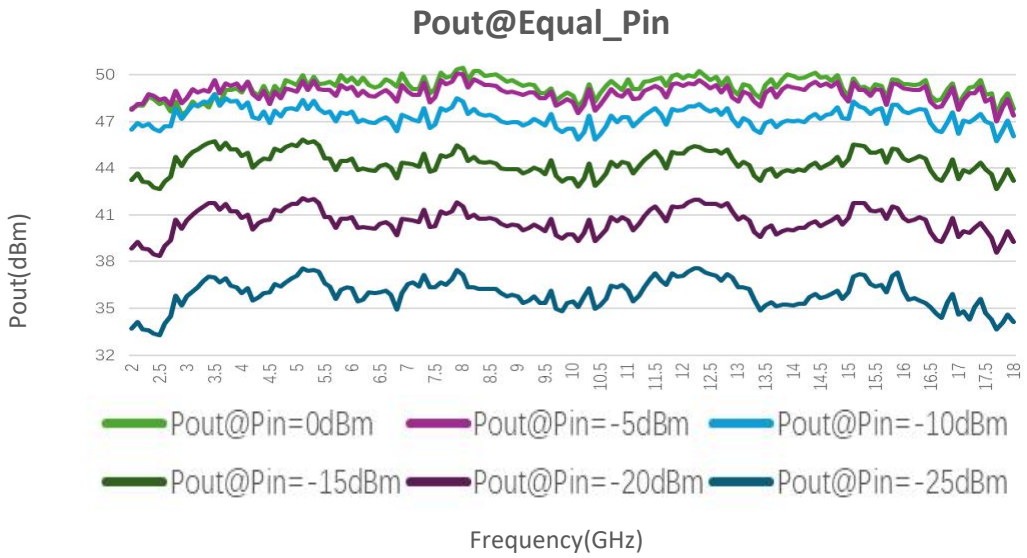

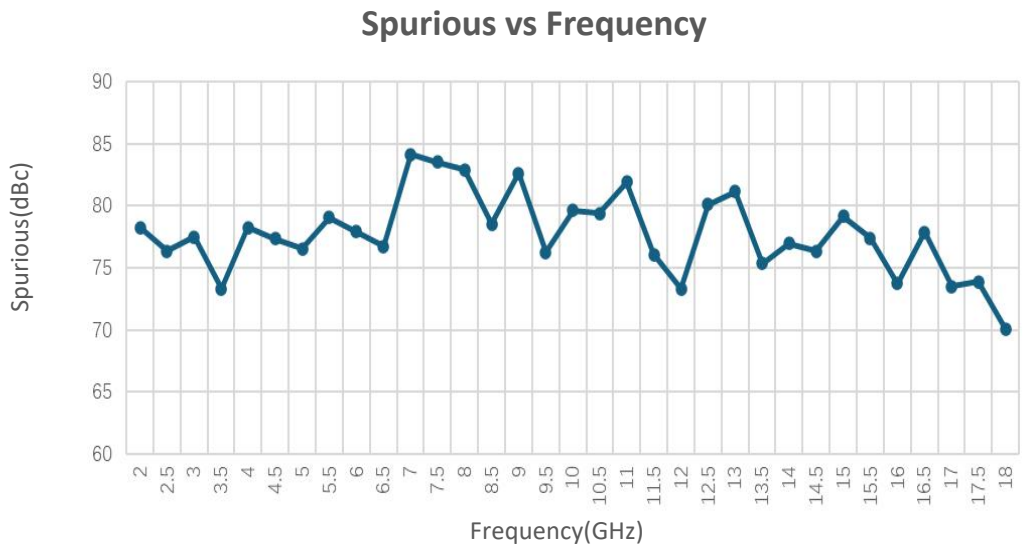

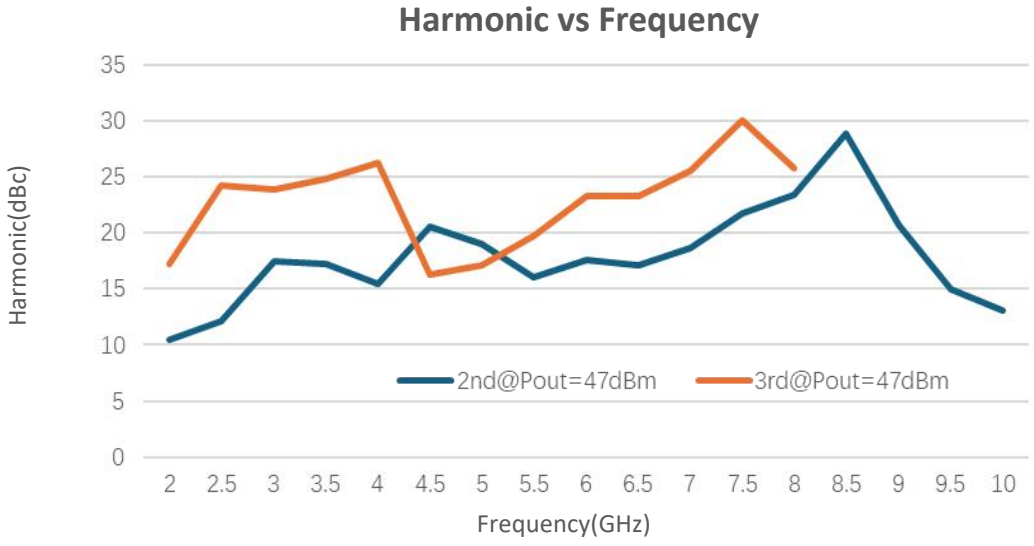

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