LF-LA4040-0218G-HS
Power Amplifier 2-18GHZ/40dB Gain/40dBm Psat
sales@lauftex.ru | lauftex.ru

LF-LA4040-0218G-HS is a power amplifier with typical power gain of 40 dB and a minimum Psat of 40 dBm across the frequency range of 2 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/2.4 A. The input and output port configuration offers coax adapter structure with SMA female.

Features:

- Frequency range: 2-18GHz
- Gain: 40dB Typ
- Output Power Psat: 40dBm 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		40		dB
Gain Flatness		±4		dB
Output Psat	40			dBm
Spurious@Pout=40dBm			-50	dBc
2nd Harmonic@Pout=40dBm		-10		dBc
Input VSWR			2	:1
DC Voltage		28		V DC
DC Supply Current		2.4		A
Impedance		50		Ohms

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Mechanical Specifications:

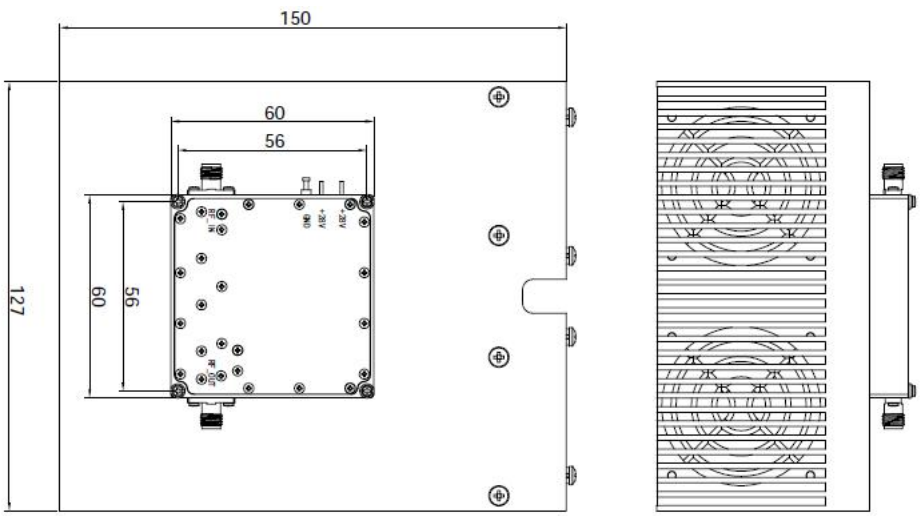
Parameter	Value	Units
Input /Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Size	150*127*74.5	mm

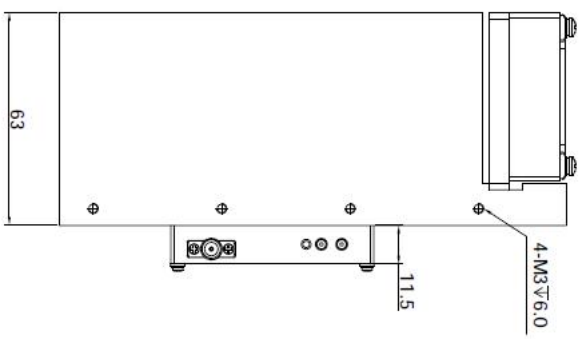
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm





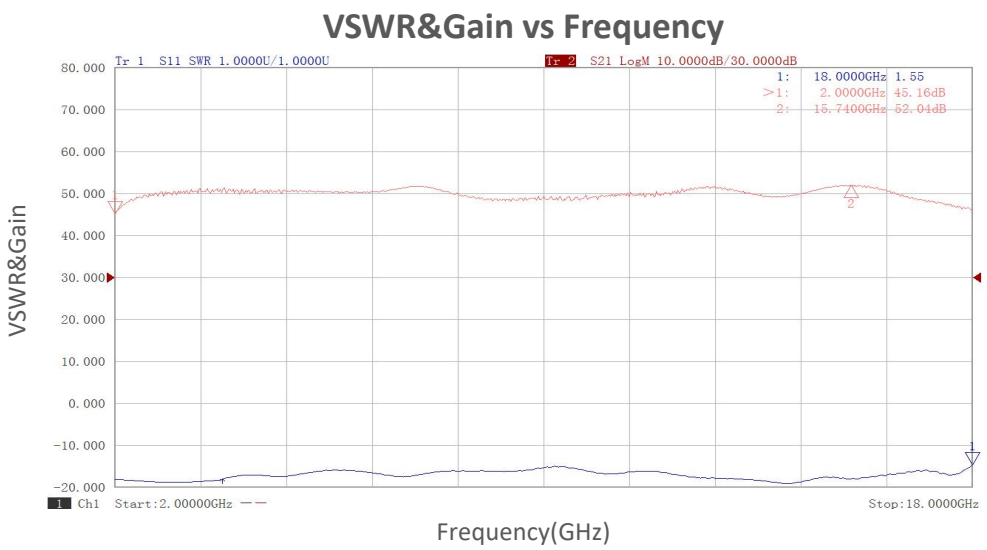
ESD Protection: Strictly adhere to ESD precautions to prevent electrostatic damage.

Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature*	-40		+50	℃
Non-operating Temperature*	-50		+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.

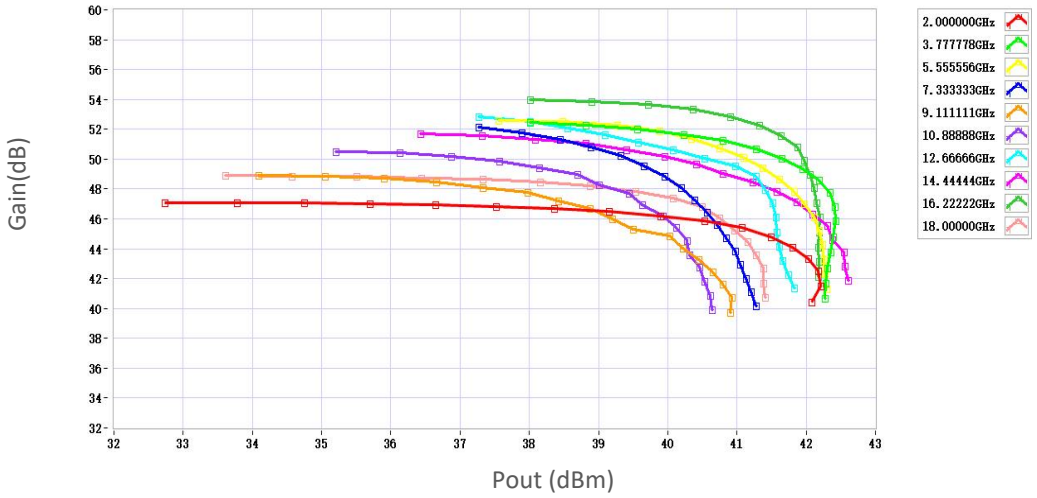
Typical Performance Data:



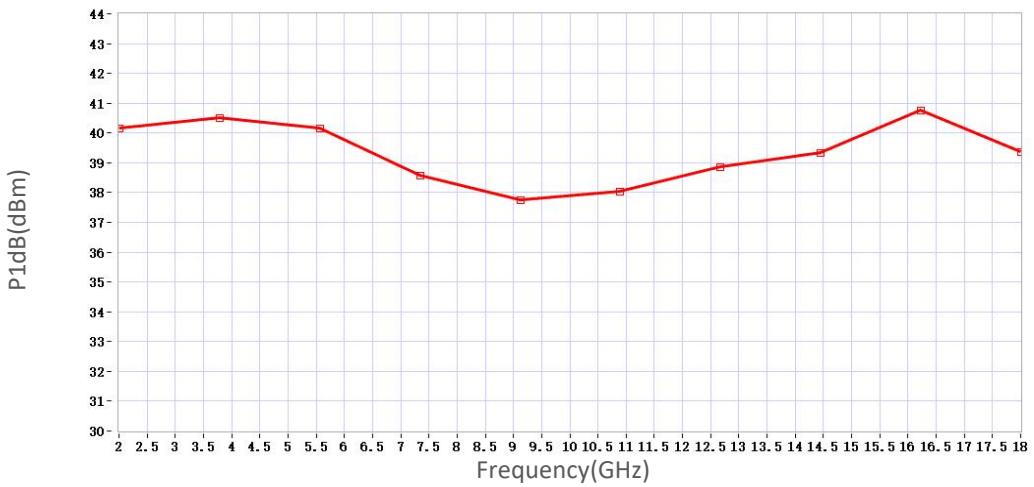
Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

Typical Performance Data:

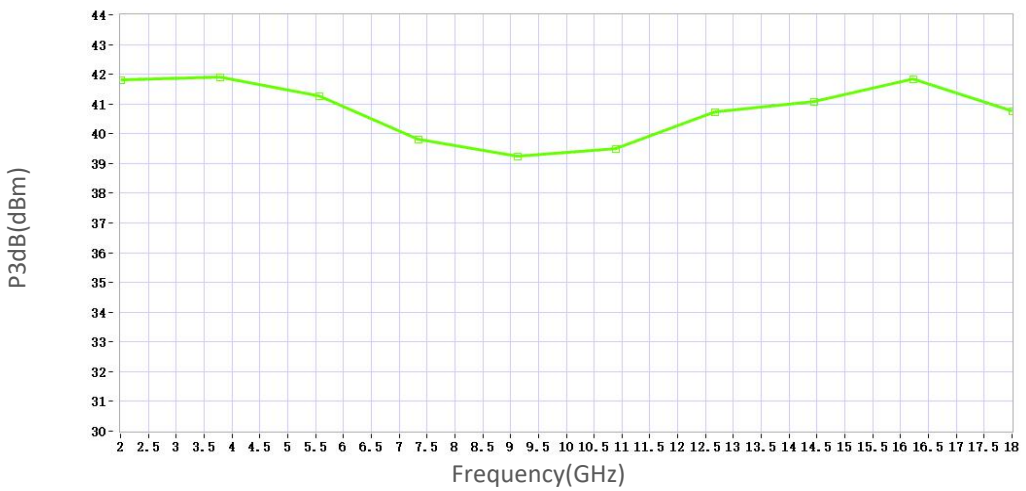
Gain vs Output Power



P1dB vs Frequency



P3dB vs Frequency



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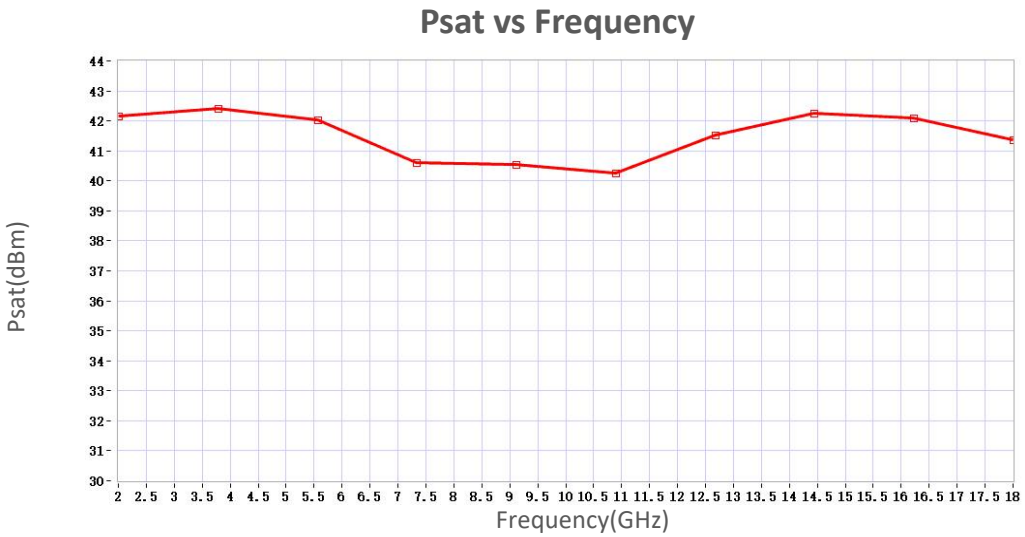
Typical Performance Data:



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