Power Amplifier

Model: PA-18G-40G-10-H

18-40GHz 10W CW

Ultrabroad frequency range, high performanceand exceptional RF characteristics

Features:

- Frequency range: 18-40GHz
- High output power at saturation, 10W Typ.
- High gain, 50 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview：

The PA-18G-40G-10-H is a power amplifier with a typical small signal gain of 50 dB and a nominal Psat of 10W across the frequency range of 18 to 40 GHz. The DC power requirement for the amplifier is +18 VDC/2.5 A. The input and output port configuration offers coax adapter structure with 2.92mm female.

Electrical Specifications at 25℃:

Parameter	Min	Typ	Max	Units
Frequency range	18		40	GHz
Small Signal Gain		50		dB
Small Signal Gain Flatness		±2		dB
Output Psat		40		dBm
Spurious		-60		dBc
Harmonic			-20	dBc
Input VSWR		2		:1
DC Voltage		+18		V DC
DC Supply Current		2.5		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temerature*	-40℃ to +50℃	
Non-operating Temperature*	-50℃ to +60℃	
Relative humidity	95	%
RF Input/Output Connector	2.92mm Female/2.92mm Female	
DC Supply Connector	Solder Pin	
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	
Dimensions W x H x D	60*60*11(Without heatsink) 188.4*90*101(With heatsink)	mm

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

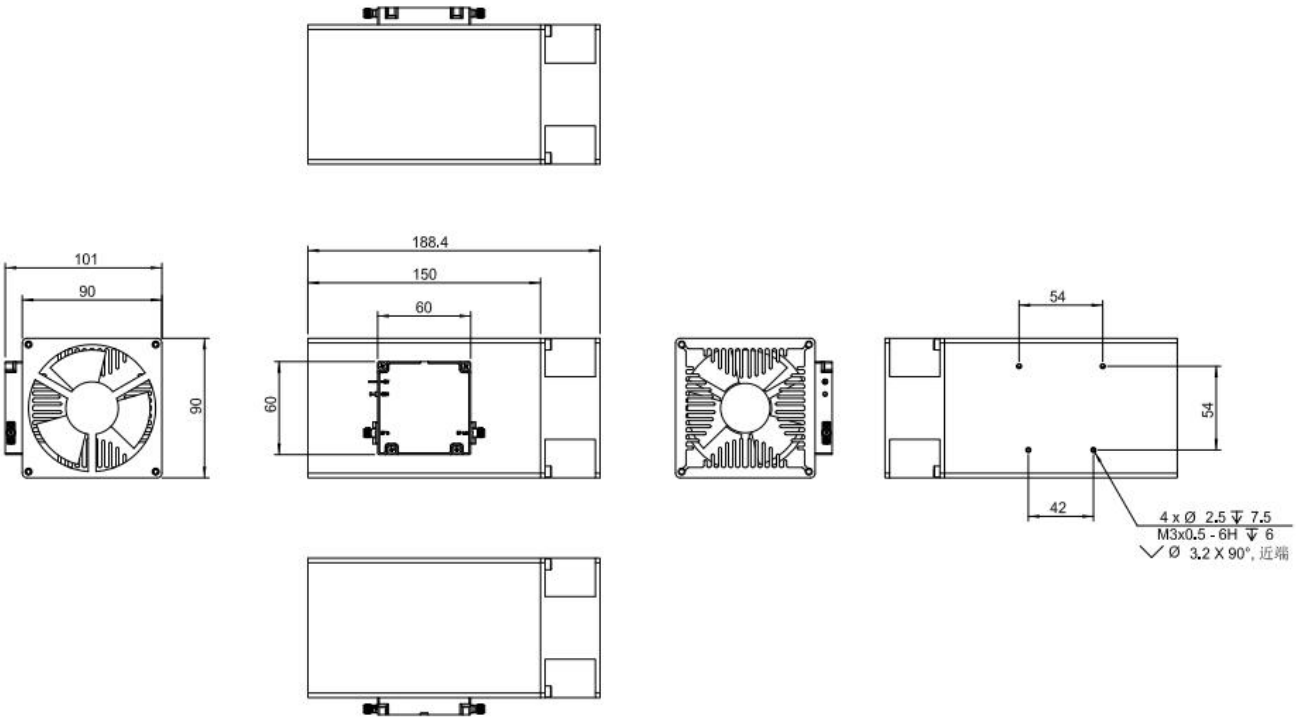
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+19 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

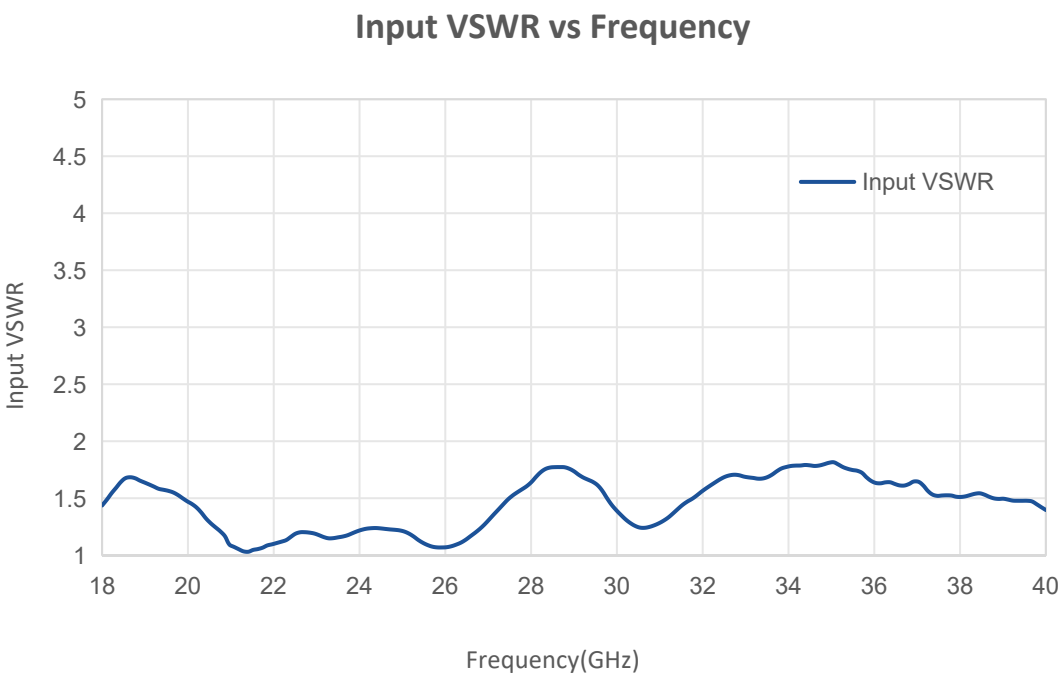
PA-18G-40G-10-H

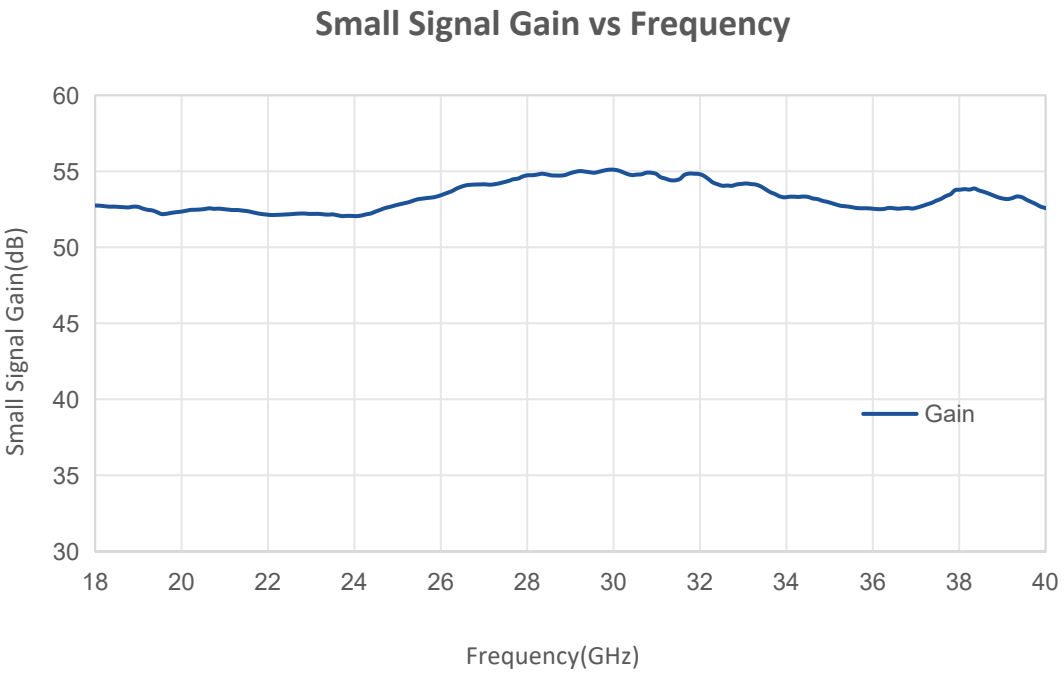


Ordering Information:

Base Number	Description	Optional
PA-18G-40G-10-H	Power Amplifier, 18-40GHz, Gain:50dB,Psat:10W,+18V DC	With Heatsink

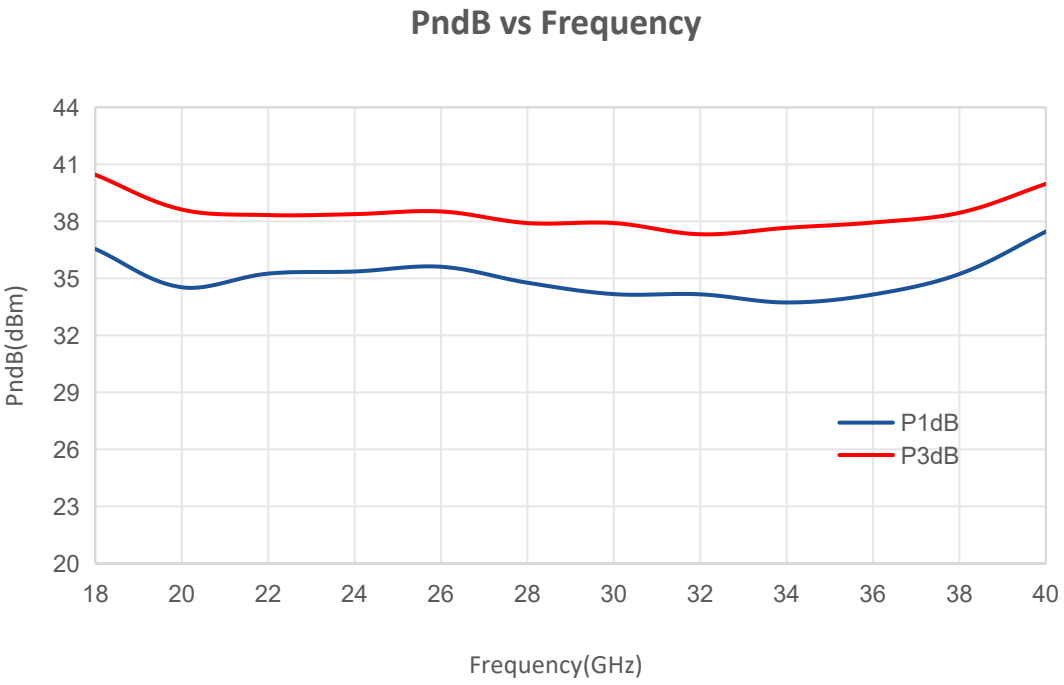
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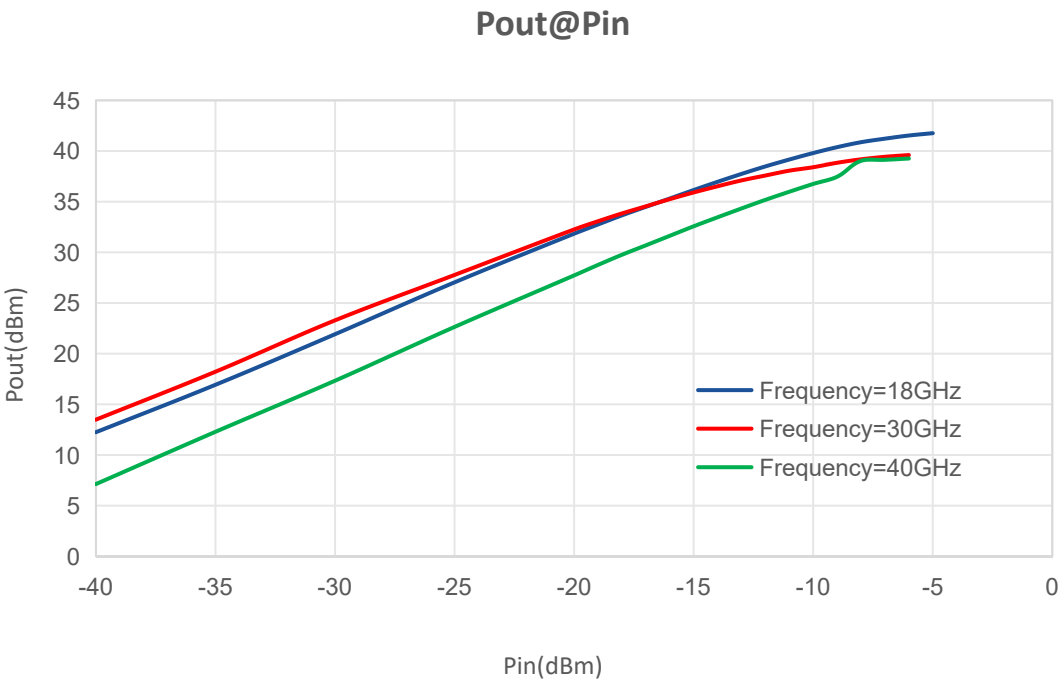




Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

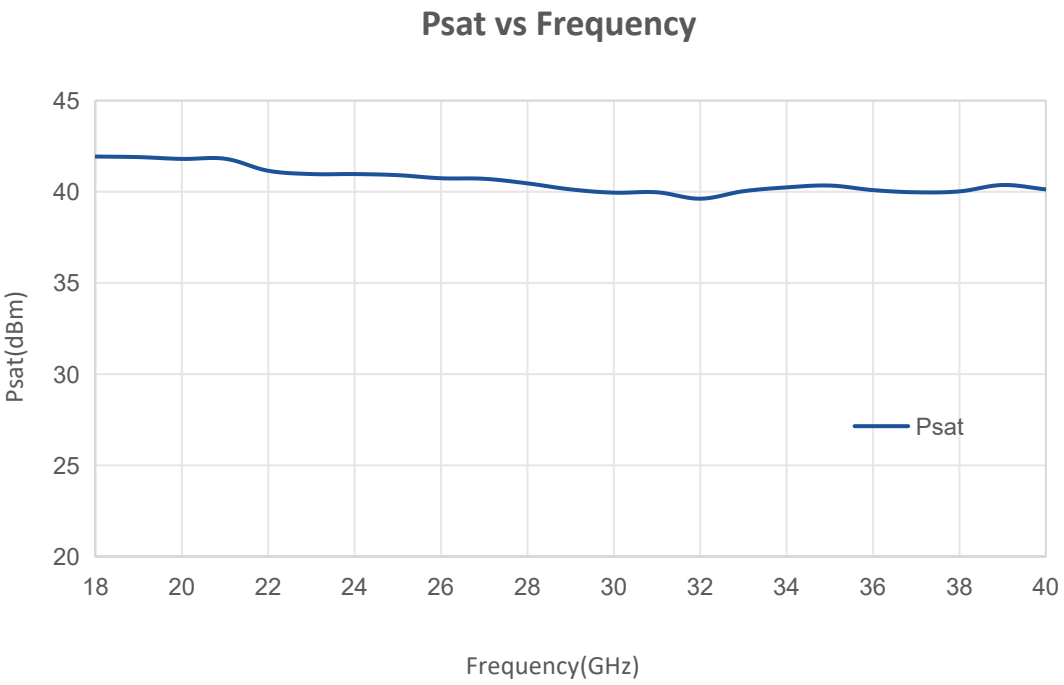
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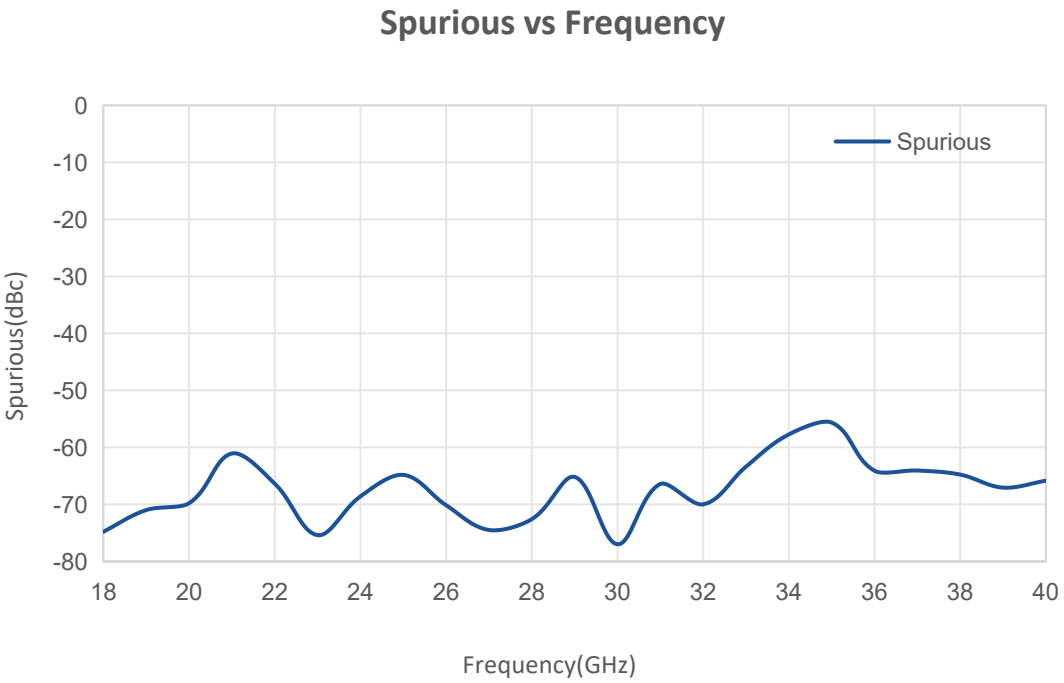




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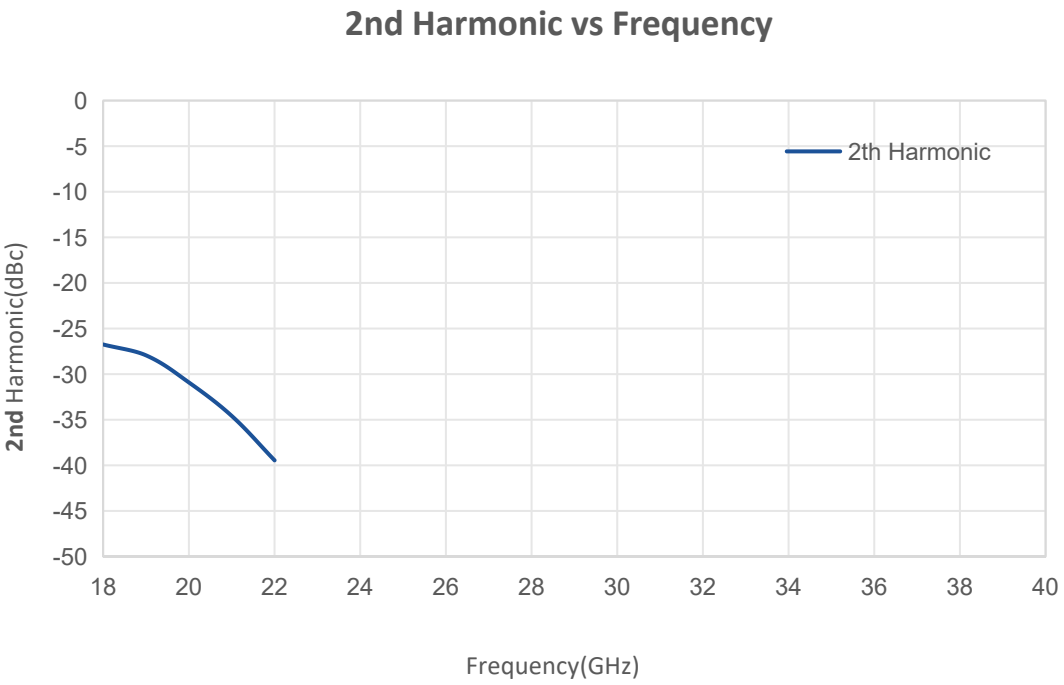
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