



Power Amplifier

Model: PA-6G-26G5-4

6-26.5GHz 4W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 6-26.5GHz
- High output power at saturation, 4W Min.
- High gain, 36 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-6G-26G5-4 is a power amplifier with a minimum power gain of 36 dB and a minimum Psat of 10W across the frequency range of 6 to 26.5 GHz. The DC power requirement for the amplifier is +18 VDC/8 A. The input and output port configuration offers coax adapter structure with 2.92mm female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	6		26.5	GHz
Power Gain	36			dB
Power Gain Flatness		±5.5		dB
Output P1dB	27			dBm
Output Psat	36			dBm
Spurious@Pout=36dBm			-55	dBc
Harmonic@Pout=36dBm		-15	-10	dBc
Input VSWR			2	:1
DC Voltage		+18		V DC
DC Supply Current		8		A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-40°C to +70°C	
Relative humidity	95	%
RF Input/Output Connector	2.92mm Female/2.92mm Female	
DC Bias	DSUB-7W2	
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	200*100*23(Without heatsink) 200*100*69.5(With heatsink)	mm
Weight	2	Kg

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

Absolute Maximum Ratings:

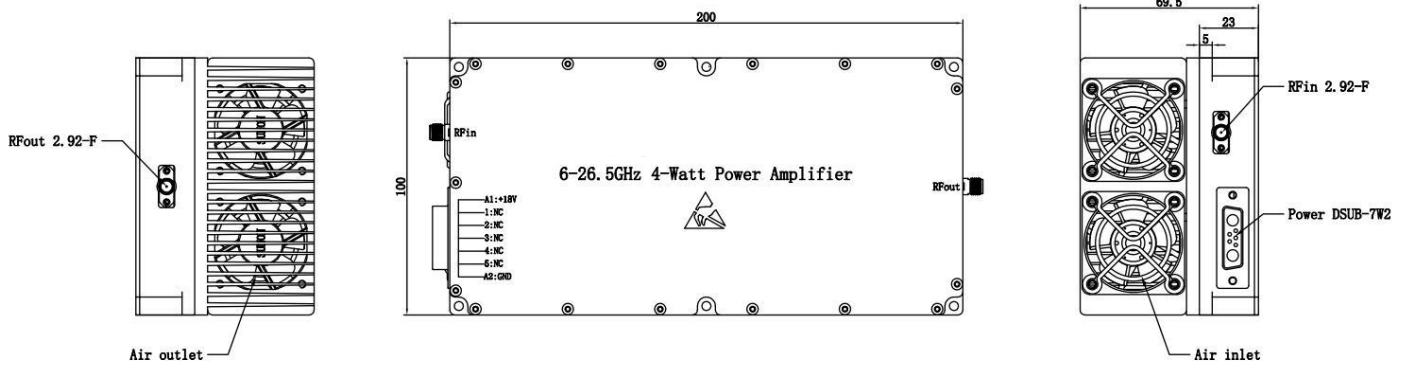
Parameter	Value
Supply Bias Voltage	+19 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-6G-26G5-4-HS



DSUB-7W2 Definition:

Pin	Function
A1	+18V
A2,1~5	GND

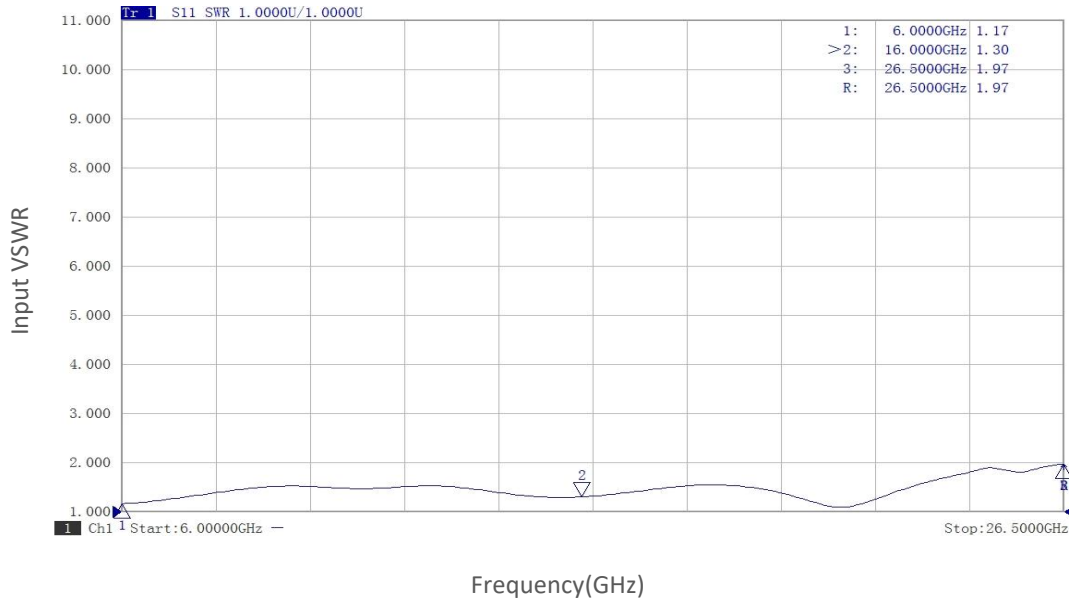
Ordering Information:

Base Number	Description	Optional
PA-6G-26G5-4	Power Amplifier, 6-26.5GHz, Gain:36dB,Psat:4W,+18V DC	Without Heatsink
PA-6G-26G5-4-HS	Power Amplifier, 6-26.5GHz, Gain:36dB,Psat:4W,+18V DC	With Heatsink

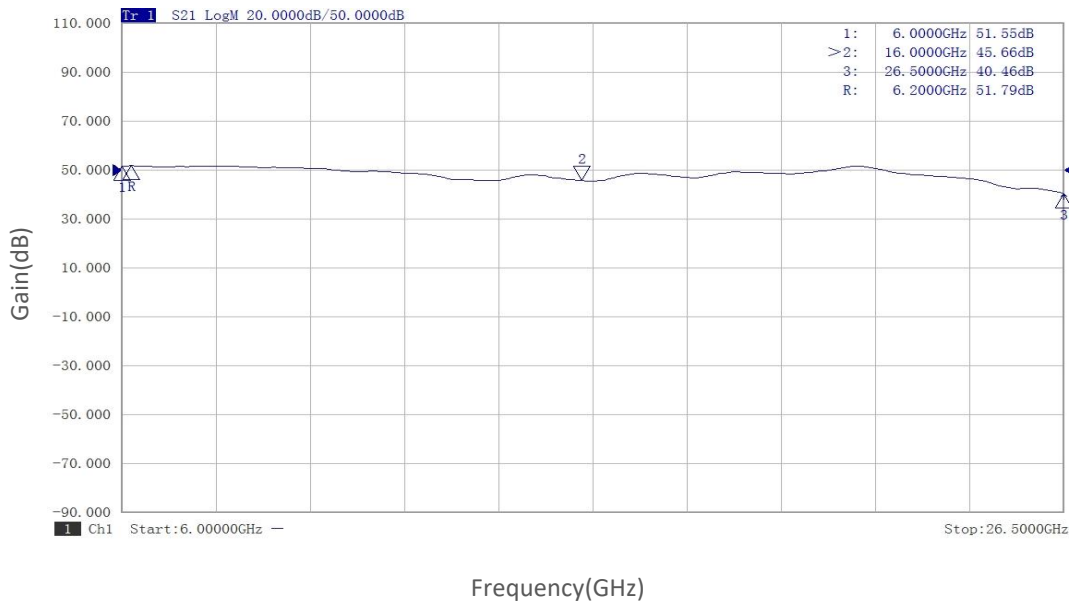


Typical Performance Data:

Input VSWR vs Frequency



Small Signal Gain vs Frequency

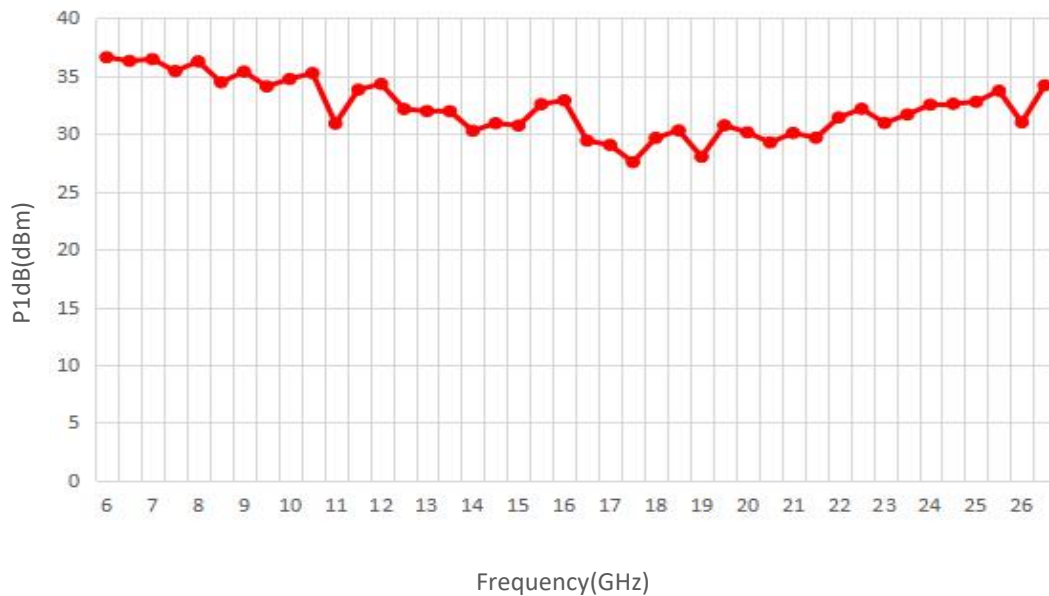


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

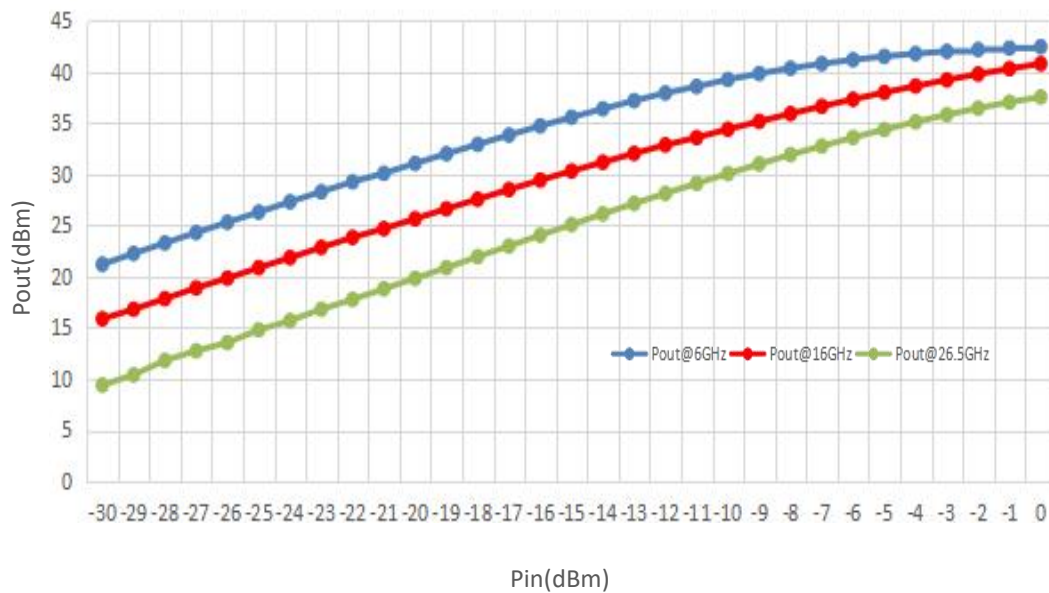


Typical Performance Data:

P1dB vs Frequency



Pout@Pin

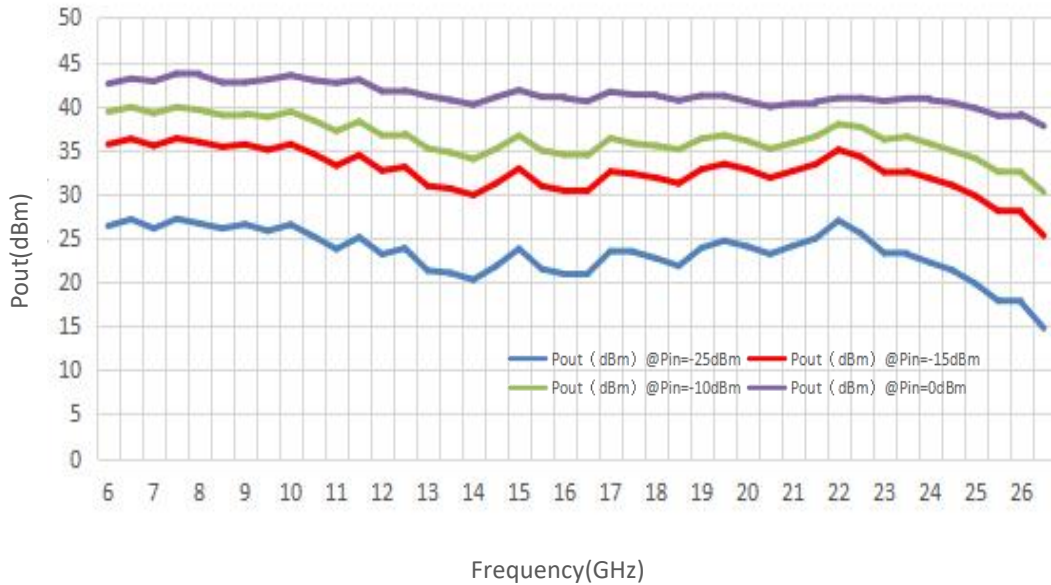


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

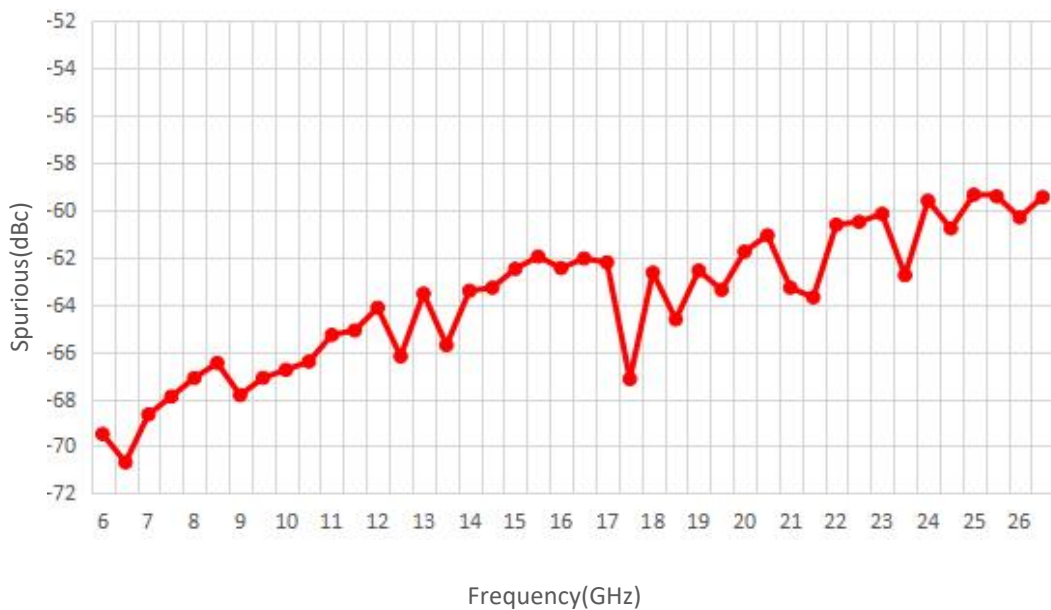


Typical Performance Data:

Pout@Equal_Pin



Spurious vs Frequency

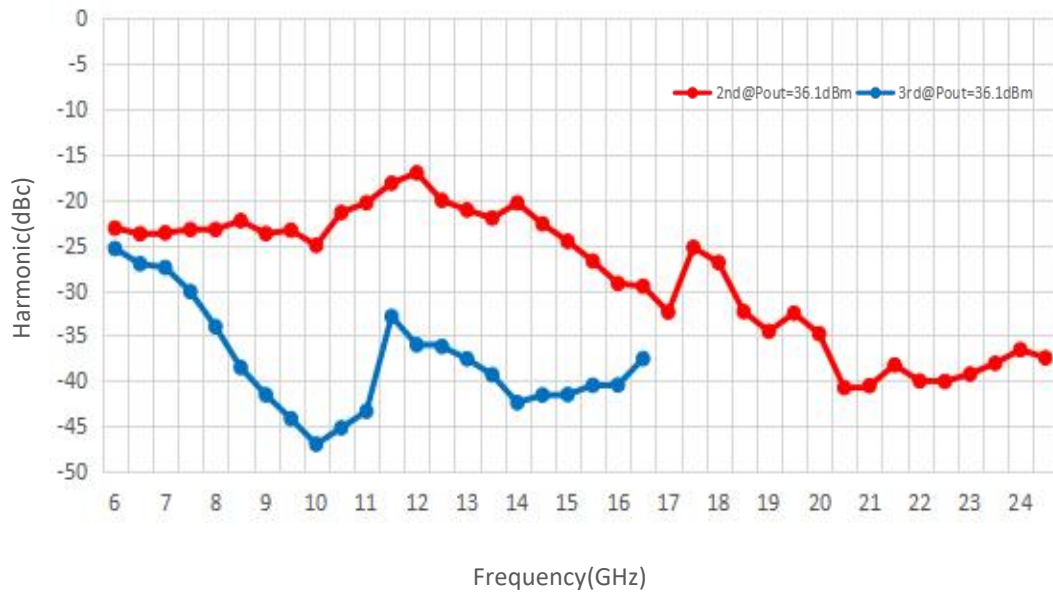


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.



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.