



Power Amplifier

Model: PA-0G1-26G-0.2

0.1-26GHz 0.2W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.1-26GHz
- Input 1 dB Gain Compression Point, 0.2W Typ.
- High gain, 15 dB Typ.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-0G1-26G-0.2 is a power amplifier with a typical small signal gain of 15 dB and a nominal P1dB of 0.2W across the frequency range of 0.1 to 26GHz. The DC power requirement for the amplifier is +12 VDC/200 mA. The input and output port configuration offers coax adapter structure with SMA female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	0.1		26	GHz
Small Signal Gain		15		dB
Small Signal Gain Flatness		±1.5		dB
Output P1dB		23		dBm
Noise Figure		5		dB
Input VSWR		2		:1
Output VSWR		2		:1
DC Voltage	+10	+12	+15	V DC
DC Supply Current		200		mA
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +60°C	
Non-operating Temperature*	-50°C to +70°C	
Relative humidity	95%	
RF Input/Output Connector	SMA Female/SMA Female	
DC Bias	Solder Pin	
Altitude	50,000	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	44*36*12	mm

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

Absolute Maximum Ratings:

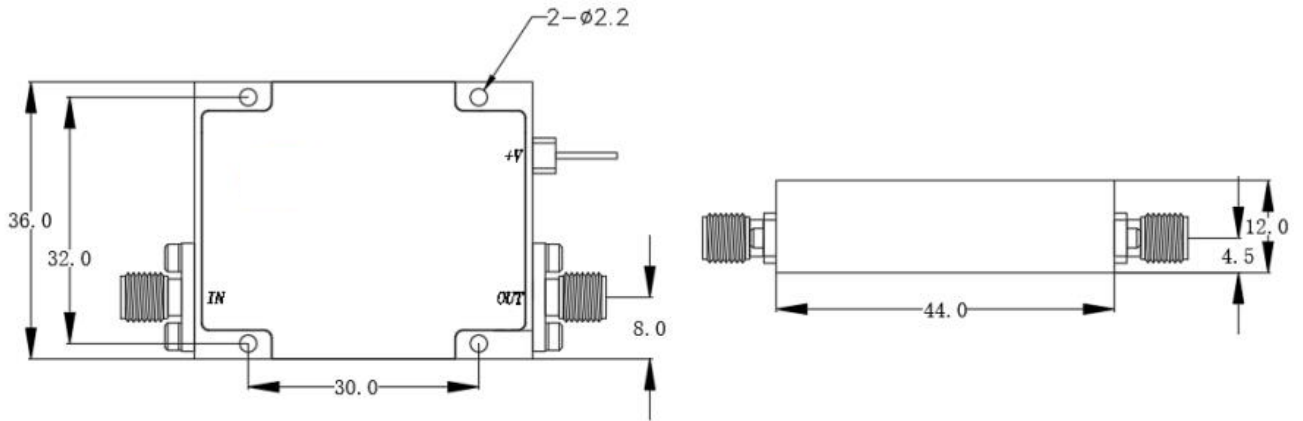
Parameter	Value
Supply Bias Voltage	+15 V
RF Input Power	+15 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-0G1-26G-0.2



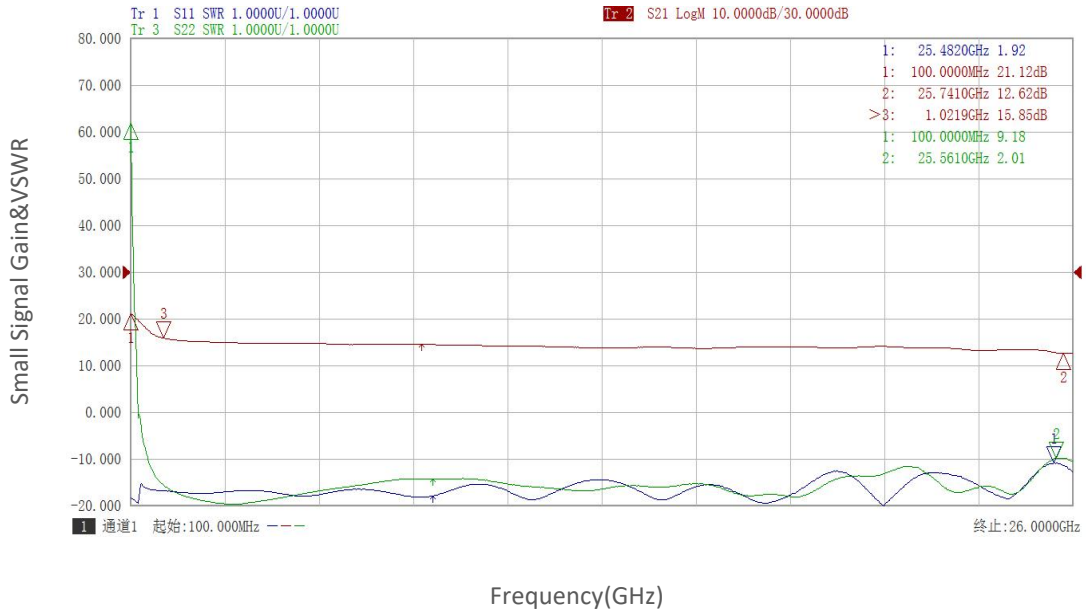
Ordering Information:

Base Number	Description	Optional
PA-0G1-26G-0.2	Power Amplifier, 0.1-26GHz, Gain:15dB,Psat:0.2W,+12V DC	Without Heatsink
PA-0G1-26G-0.2-HS	Power Amplifier, 0.1-26GHz, Gain:15dB,Psat:0.2W,+12V DC	With Heatsink



Typical Performance Data:

Small Signal Gain&VSWR vs Frequency



Noise Figure vs Frequency

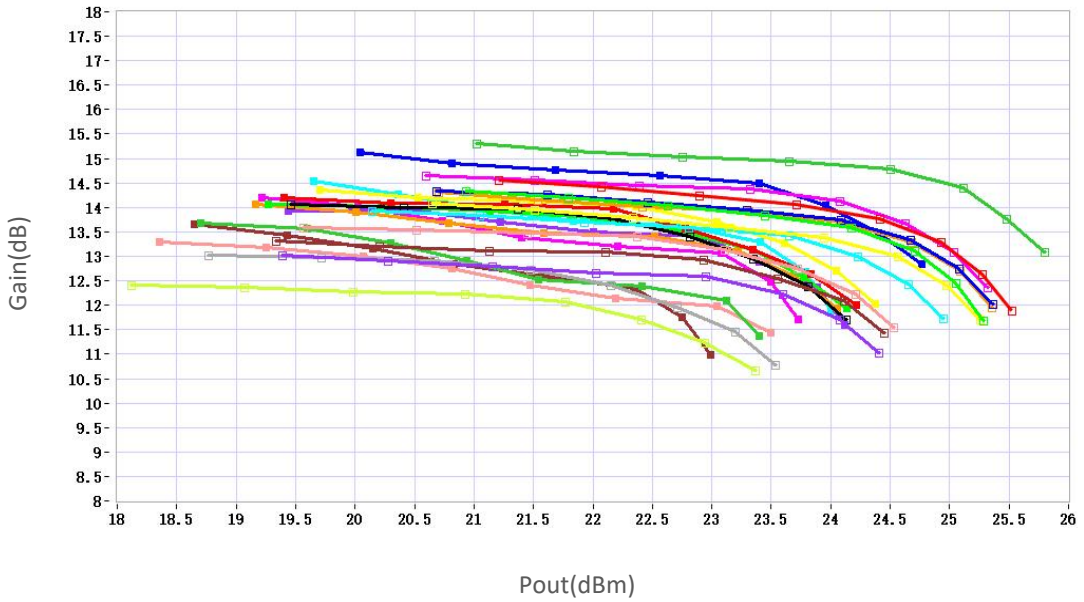


Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.

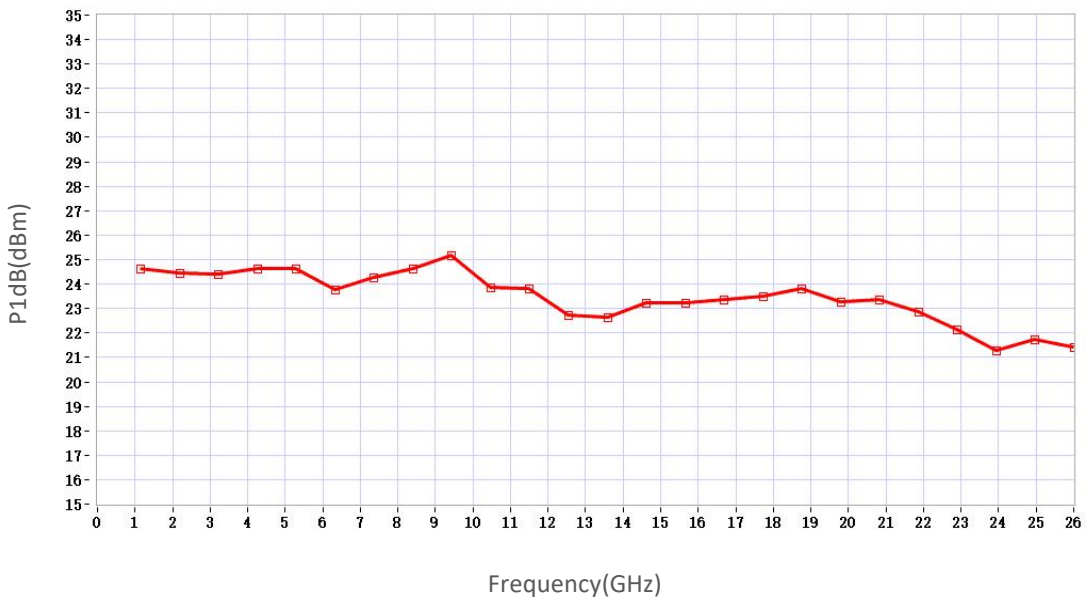


Typical Performance Data:

Gain vs Output Power



P1dB vs Frequency



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