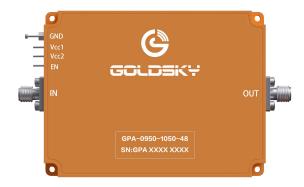


GPA-0950-1050-48



Main Features:

• Frequency Range: 9.5 to 10.5 GHz.

• Typical values: Pout 48 dBm, Gain 40 dB

• Power Added Efficency: 20%

• Gain Flatness ±1 dB typ

• RF connectors (I/O): SMA Female

Several mounting options

GPA-0950-1050-48

The GPA-0950-1050-48 is a High Power Amplifier providing an output power of 48 dBm and a gain of 40 dB. The compact size and modularity makes it ideal for a wide range of applications.

Typical applications:

- Wireless communication equipment
- Test and measurement equipment
- Navigation and aerospace
- Commercial radars
- General-purpose transmitter amplification

Performance

Parameter	Value			Units
	Min	Тур	Max	
Frequency	9.5	-	10.5	GHz
Output Power		48		dBm
Small Signal Gain	39	40	41	dB
Gain Flatness	-	±1	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 ℃			
Storage Temperature	-55 to 125 ℃			

Specifications at a case temperature of 25°C at 32 V



Saturated Output Power

Figure 1 shows saturated output power measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

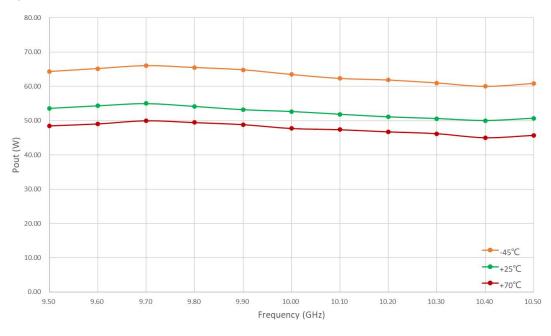


Figure 1: GPA-0950-1050-48 Psat

Small Signal Gain Vs Temperature

Figure 2 shows small signal gain measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

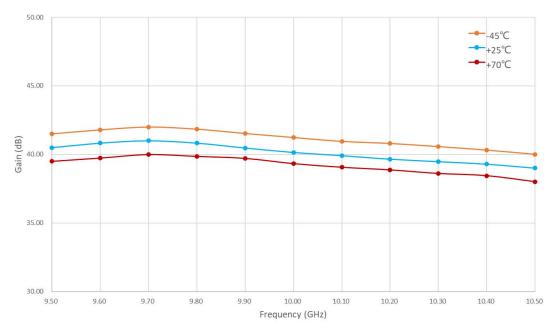


Figure 2: GPA-0950-1050-48 Small Signal Gain Vs Temperature



Input VSWR

Figure 3 shows input (S11) VSWR as a function of frequency at environment temperature (25°C).

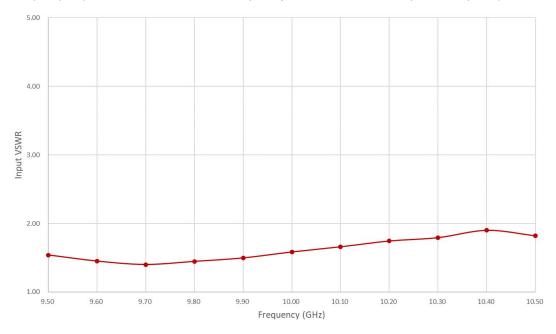


Figure 3: GPA-0950-1050-48 Input VSWR

P.A.E

Figure 4 shows P.A.E as a function of frequency at environment temperature (25°C)

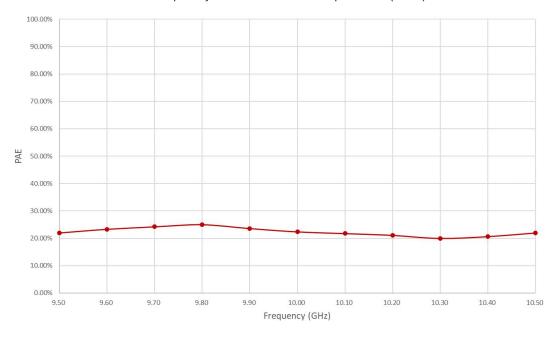


Figure 4: GPA-0950-1050-48 P.A.E

GPA-0950-1050-48

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+20 dBm
Operation temperature (at case)	-40 to 70 ℃
Storage temperature	-55 to 125 ℃

- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

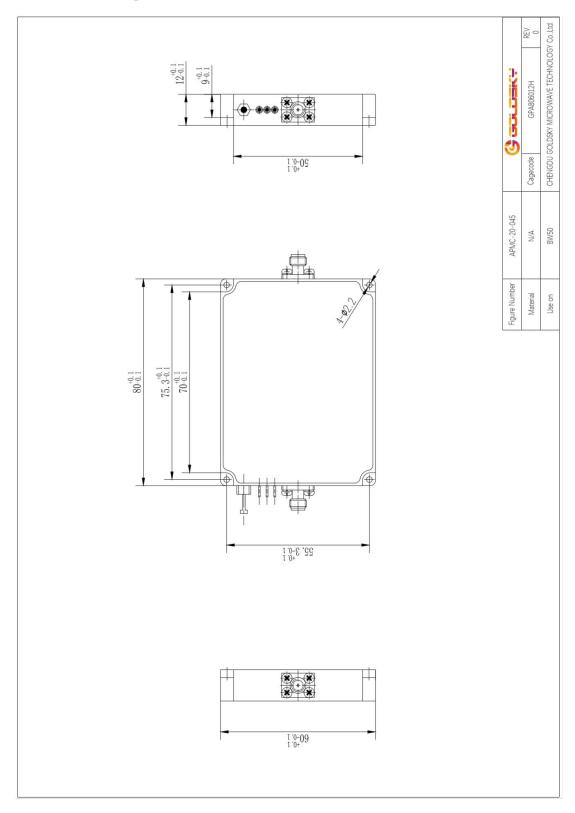
All measurements provided in this report were performed at the following conditions:

Condition	Value	
Temperature (DUT ON)	25 ℃ ± 1℃	
Humidity	44% ± 10%	
DUT Warm up time	30 min	
DUT minimum operation time	24 hours	
Test equipment warm up time	2 hours	
Additional temperature cycles in climatic chamber (DUT OFF)	-40℃ to 85℃	



GPA-0950-1050-48

Mechanics and Housing





GPA-0950-1050-48

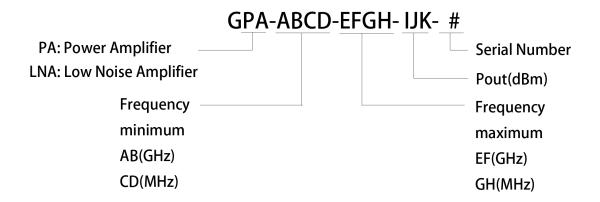


Identifier	Specification	
IN	Signal Input	
OUT	Power Output	
GND	Ground	
Vcc1	DC Supply +28V	
Vcc2	DC Supply +28V	
EN	ENABLE (can be used for pulse modulation)	

GPA-0950-1050-48

Model Number Codification

Model Number





TEL: +86 028 85590623

High Power Amplifier

GPA-0950-1050-48



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