

Part Number	Freq (MHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (AC/V)	Working Conditions	Module Size (mm)	Price	Get Quote
RFPAM-0015-1000-47	1.5-100	47	35	60	±2	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAG-0008-0300-47	80-3000	47	32	60	±6	+220	Continuous Wave	483X458X89	Get Price	Get Quote
RFPAG-0200-1800-47	2000-18000	47	24	60	±6	+220	Continuous Wave	483X458X89	Get Price	Get Quote
RFPAG-1800-2650-47	18000-26500	47	18	60	±4	+220	Continuous Wave	483X458X89	Get Price	Get Quote
Part Number	Freq (MHz)	Pout (dBm)	PAE (%)	Gain (dB)	Gain Flatness (dB)	Power Supply (AC/V)	Working Conditions	Module Size (mm)	Price	Get Quote
RFPAM-0015-0300-50	1.6-30	50	40	40	±0.5	+220	Continuous Wave	483X458X89	Get Price	Get Quote
RFPAM-0015-0300-40	1.6-30	40	40	40	±0.5	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAM-0030-1000-50	3-100	50	40	50	±1	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAM-0300-0880-47	30-88	47	35	40	±1	+220	Continuous Wave	483X458X89	Get Price	Get Quote
RFPAM-0300-0880-40	30-88	40	38	20	±2	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAM-1080-4100-39	108-410	39	45	20	±1.5	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAM-2250-5120-47	225-512	47	30	40	±1.5	+220	Continuous Wave	483X458X89	Get Price	Get Quote
RFPAM-0300-5120-40	30-512	40	28	50	±2	+220	Continuous Wave	483X458X45	Get Price	Get Quote
RFPAM-0300-5120-50	30-512	50	28	50	±2.5	+220	Continuous Wave	483X458X89	Get Price	Get Quote





Main Features:

- Frequency Range: 4.0 to 5.0 GHz.
- Typical values: Pout 49 dBm, Gain 40 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0400-0500-49

The RFP-0400-0500-49 is a High Power Amplifier providing an output power of 49 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	Typ	Max	
Frequency	4.0	-	5.0	GHz
Output Power		49		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

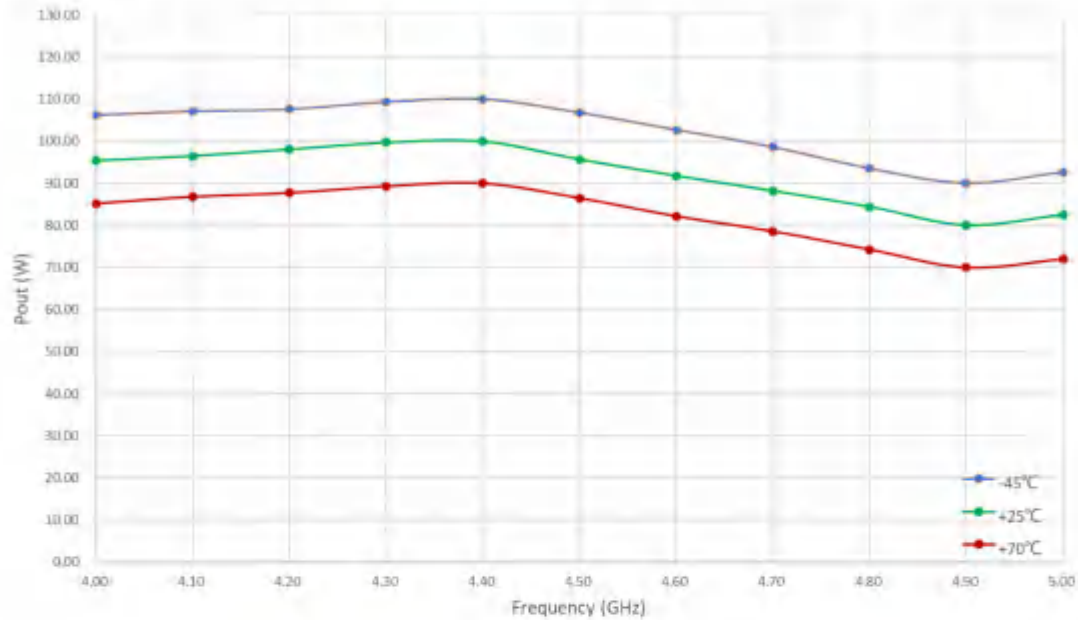


Figure 1: RFP-0400-0500-49 Psat

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.

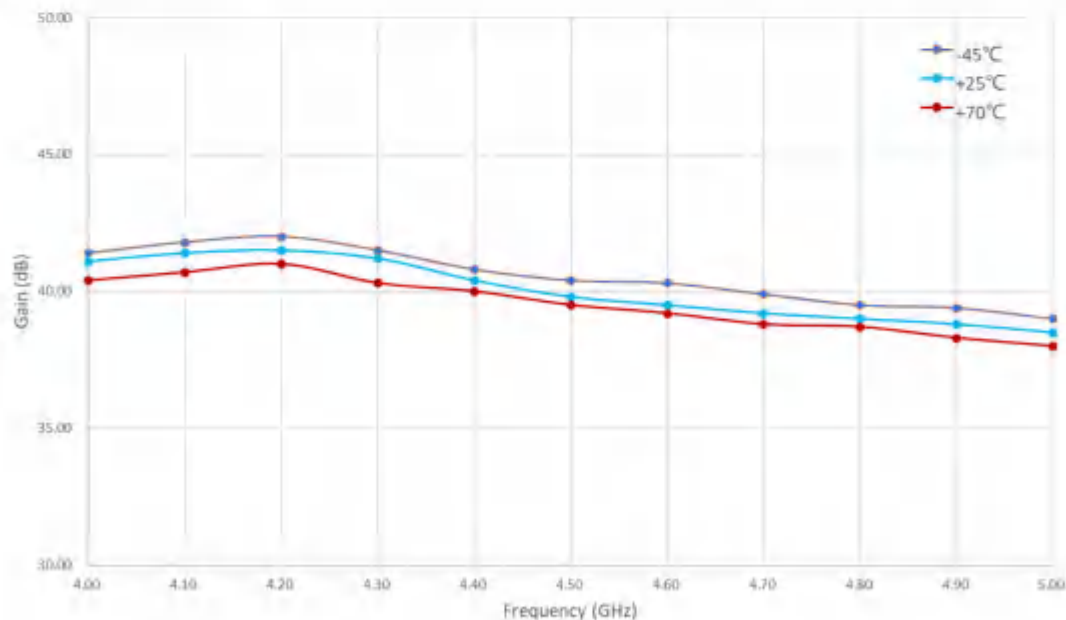


Figure 2: RFP-0400-0500-49 Small Signal Gain Vs Temperature

Input VSWR

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

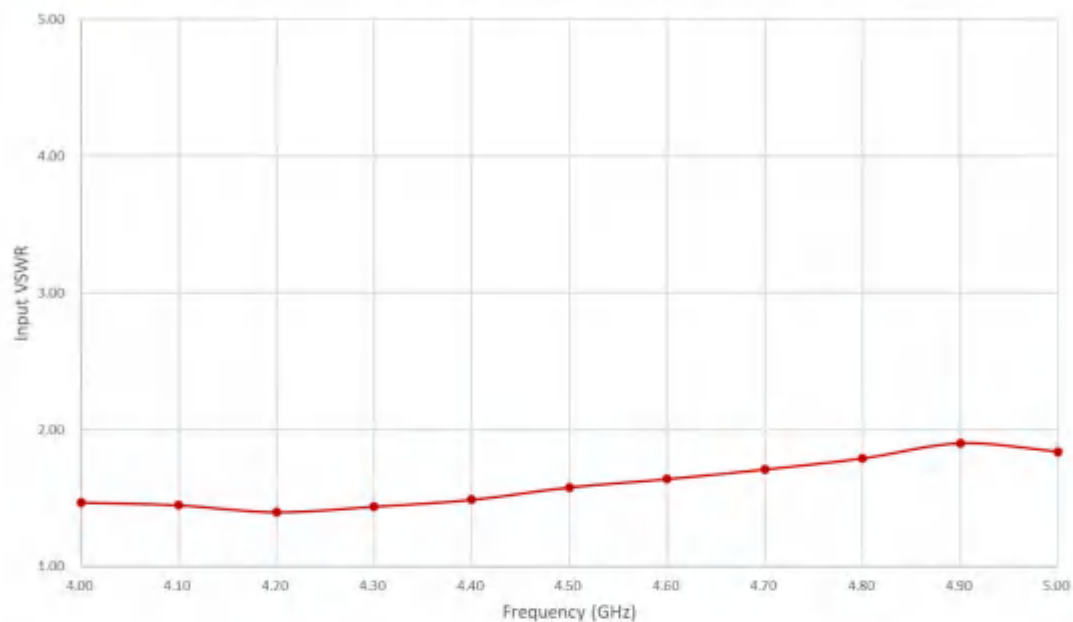


Figure 3: RFPA-0400-0500-49 Input VSWR

P.A.E

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

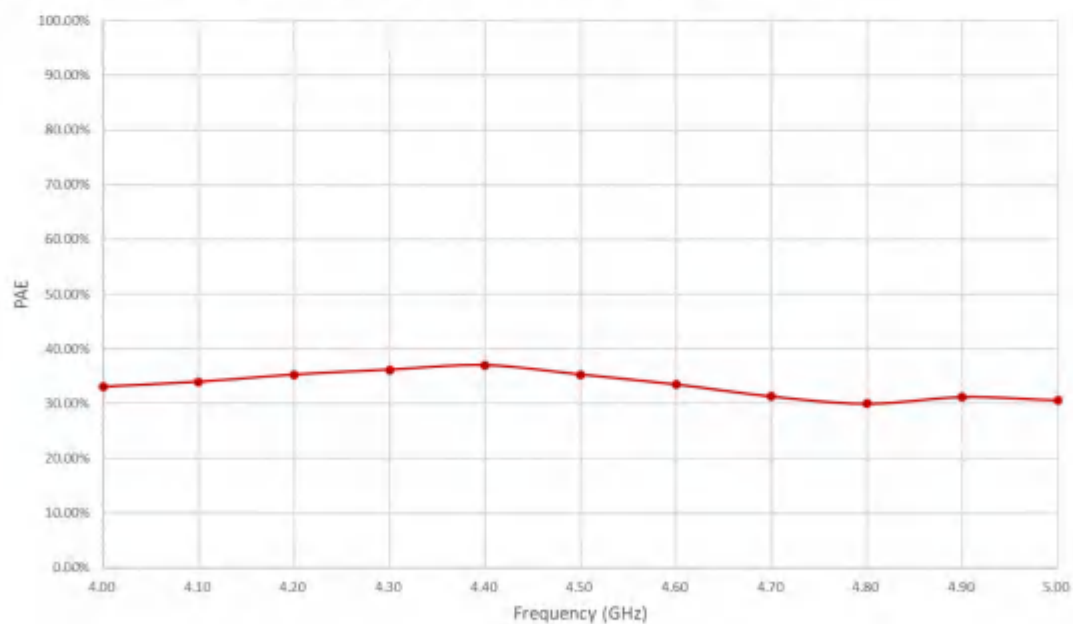


Figure 4: RFPA-0400-0500-49 P.A.E

Absolute Maximum Ratings

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

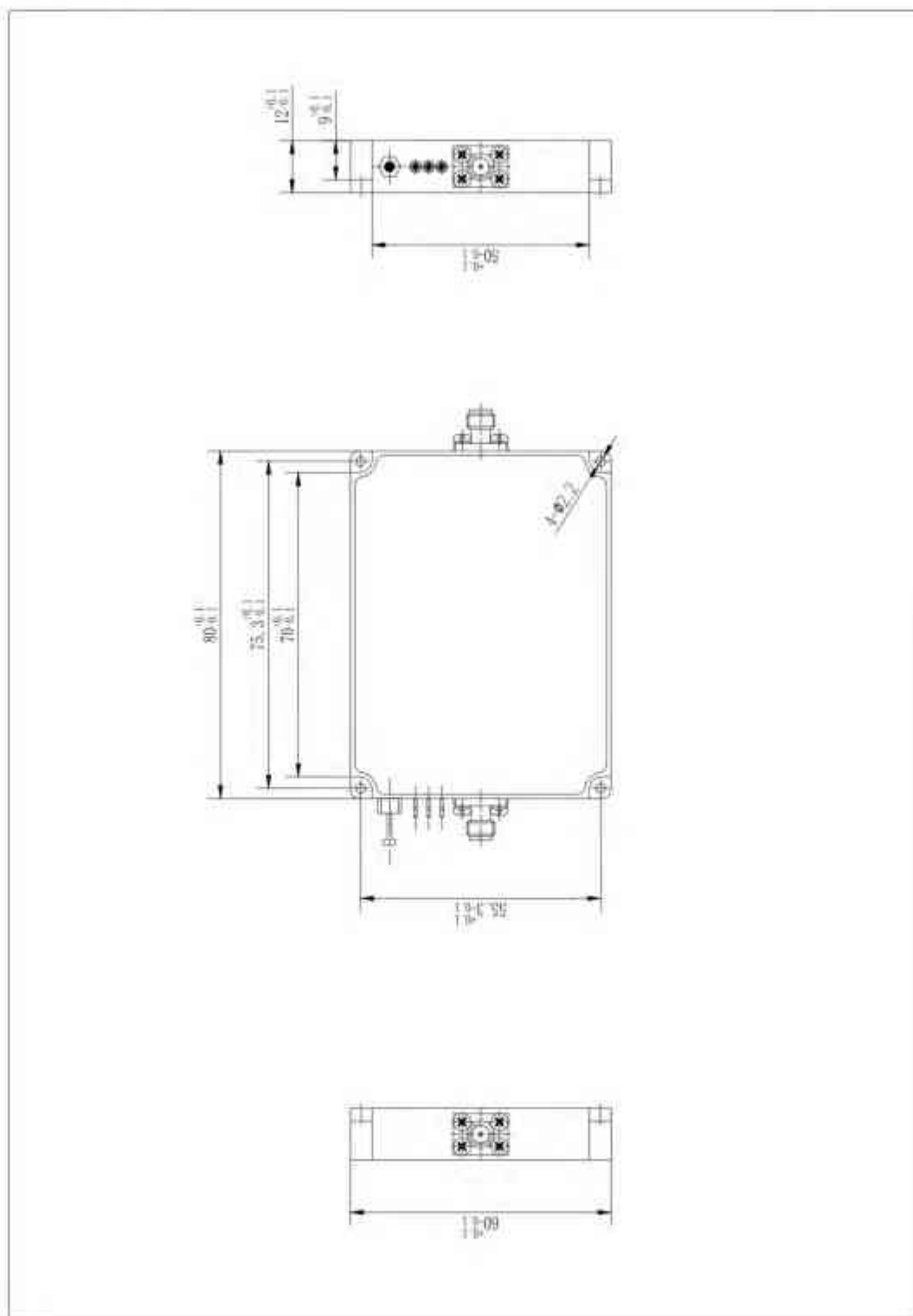
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

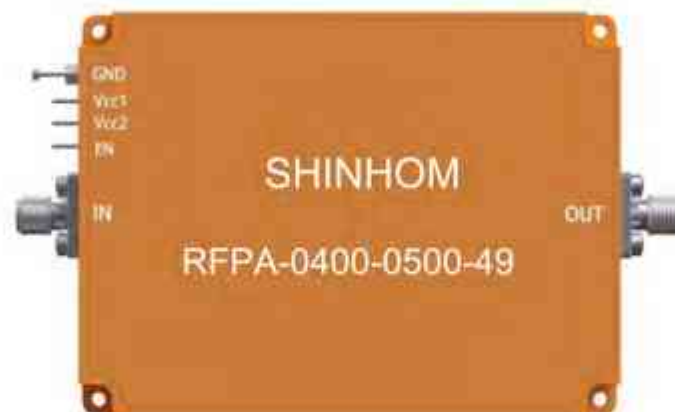
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

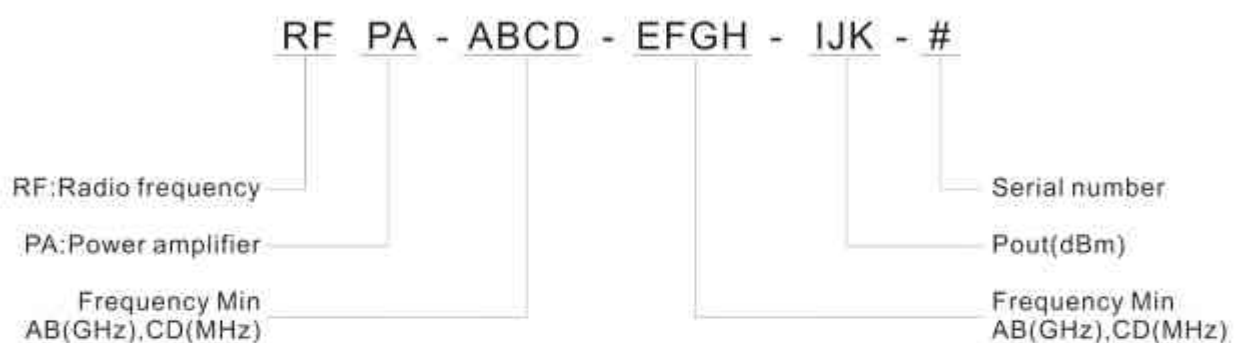




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 5.0 to 6.0 GHz.
- Typical values: Pout 39 dBm, Gain 44 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0500-0600-39

The RFP-0500-0600-39 is a High Power Amplifier providing an output power of 39 dBm and a gain of 44 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	Typ	Max	
Frequency	5.0	-	6.0	GHz
Output Power		39		dBm
Small Signal Gain	42.5	44	45.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

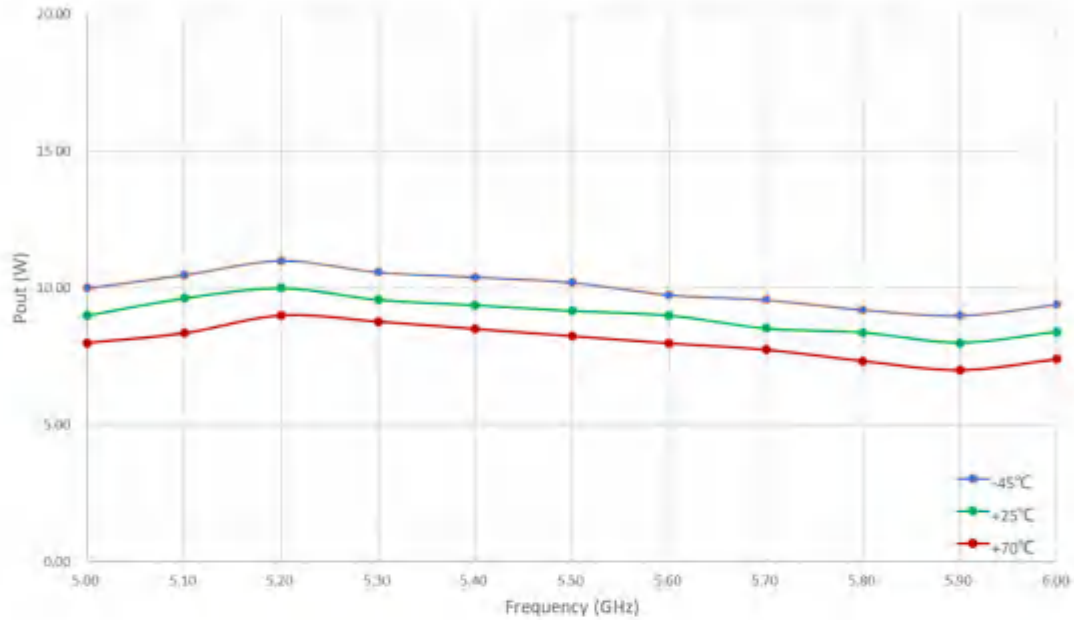


Figure 1: RFP-0500-0600-39 Psat

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.

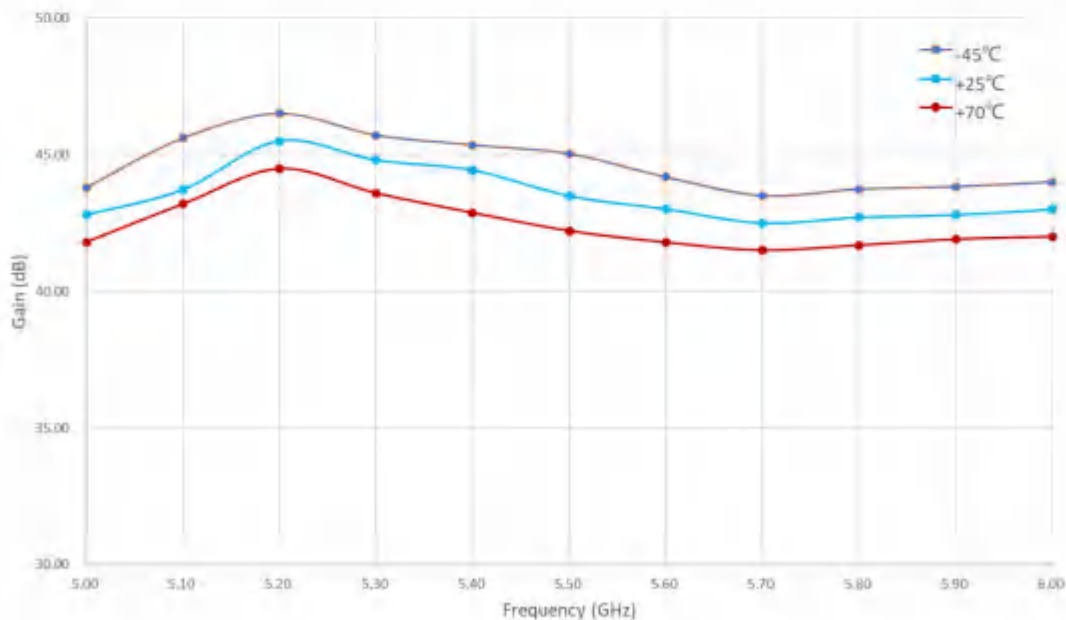


Figure 2: RFP-0500-0600-39 Small Signal Gain Vs Temperature

Input VSWR

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

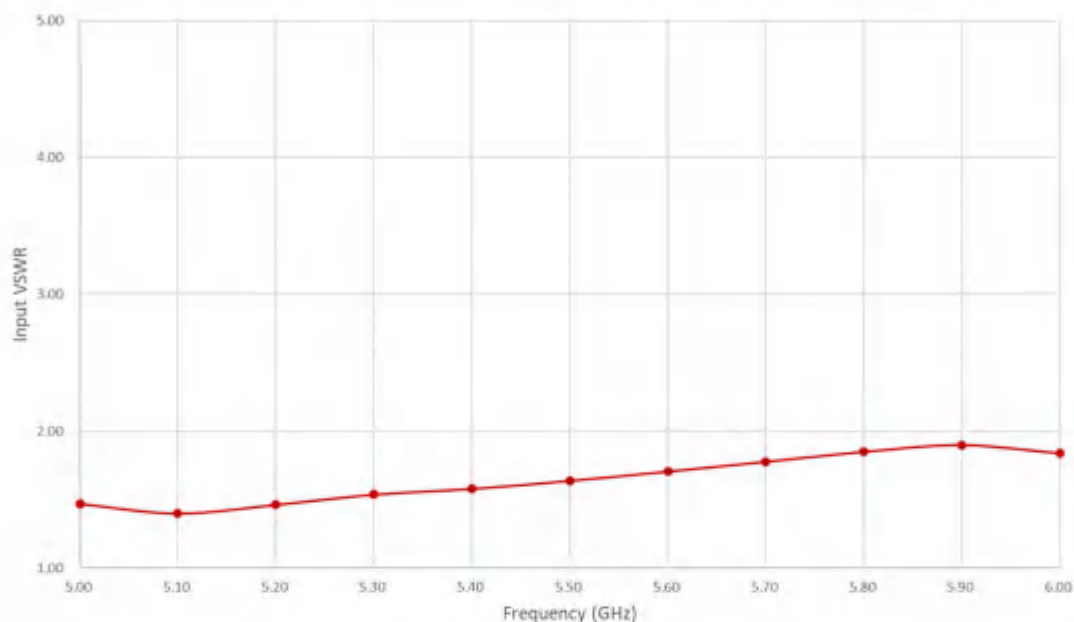


Figure 3: RFPA-0500-0600-39 Input VSWR

P.A.E

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

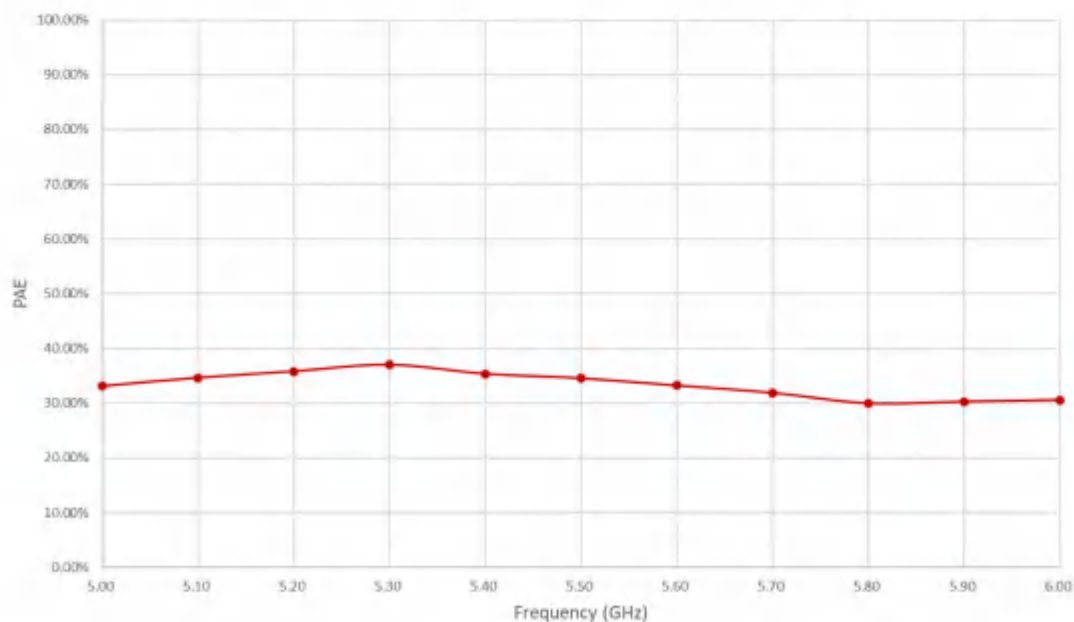


Figure 4: RFPA -0500-0600-39 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

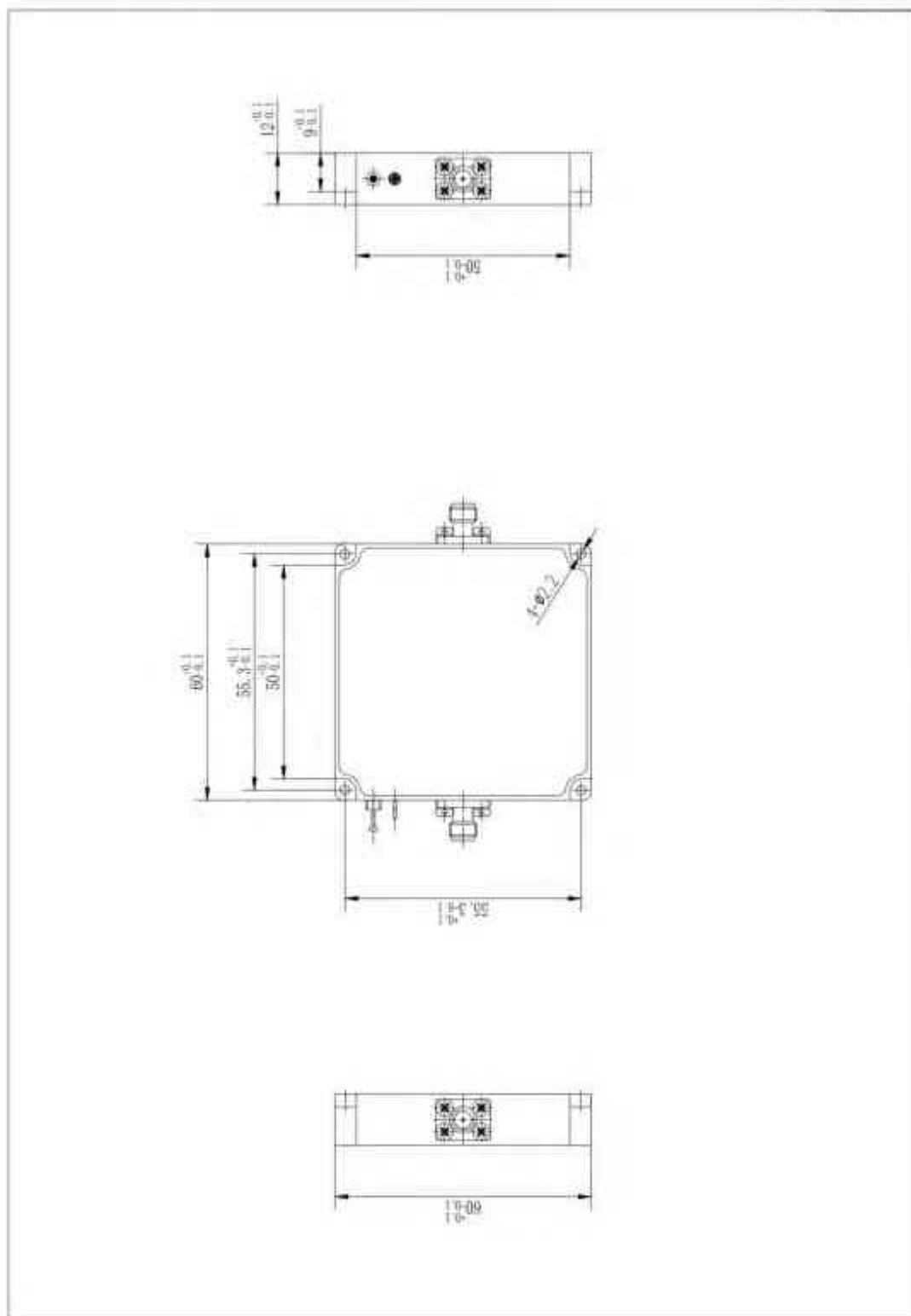
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

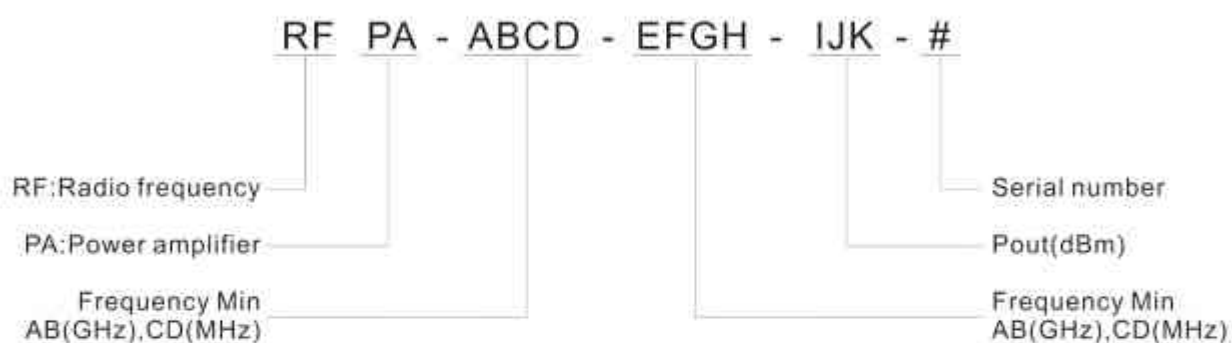




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V

Model Number Codification

Model Number





Main Features:

- Frequency Range: 5.0 to 6.0 GHz.
- Typical values: Pout 49 dBm, Gain 40 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFPA-0500-0600-49

The RFPA-0500-0600-49 is a High Power Amplifier providing an output power of 49 dBm and a gain of 40 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	5.0	-	6.0	GHz
Output Power		49		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

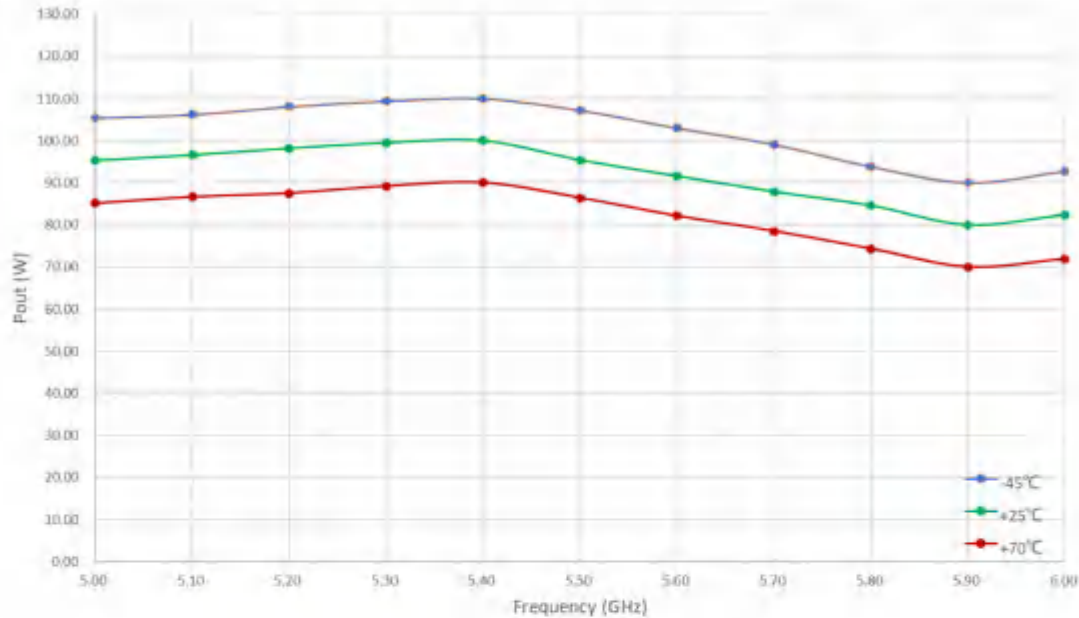


Figure 1: RFPA-0500-0600-49 Psat

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.

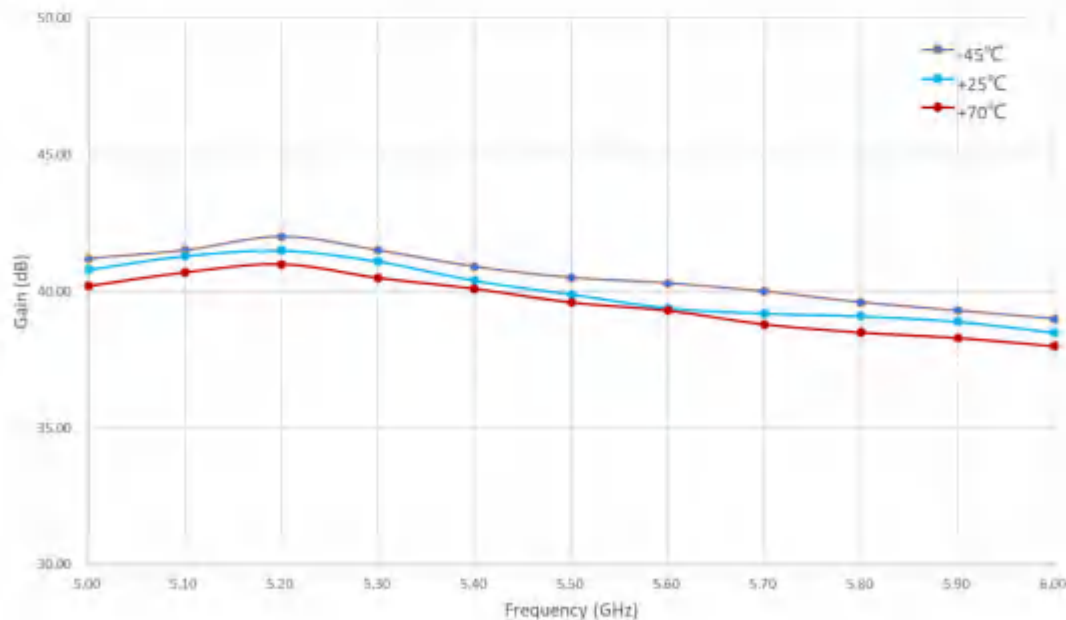


Figure 2: RFPA-0500-0600-49 Small Signal Gain Vs Temperature

Input VSWR

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

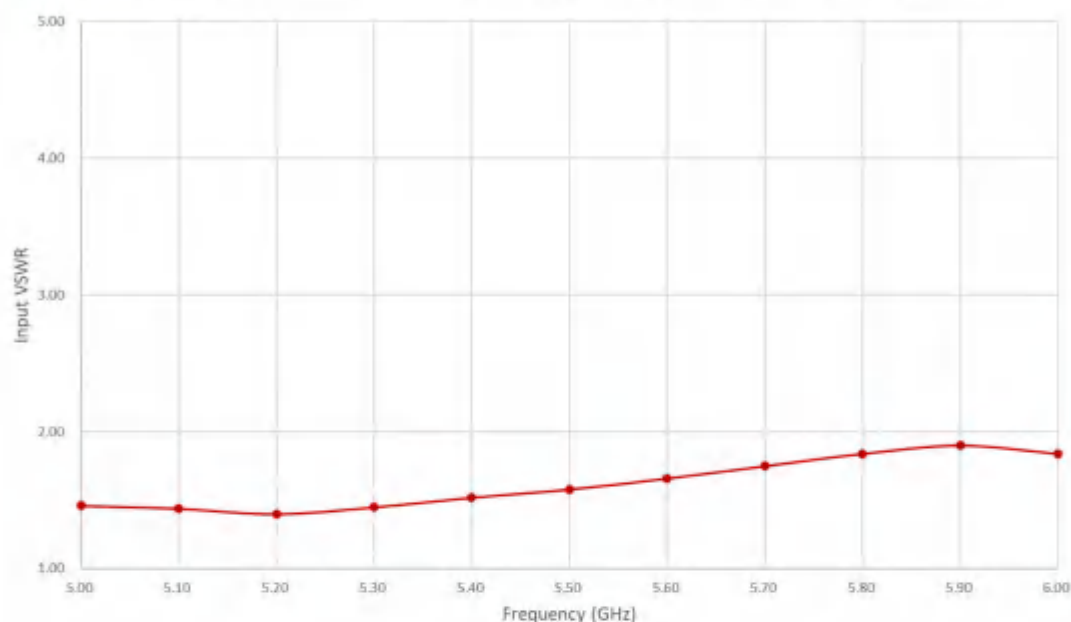


Figure 3: RFPA -0500-0600-49 Input VSWR

P.A.E

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

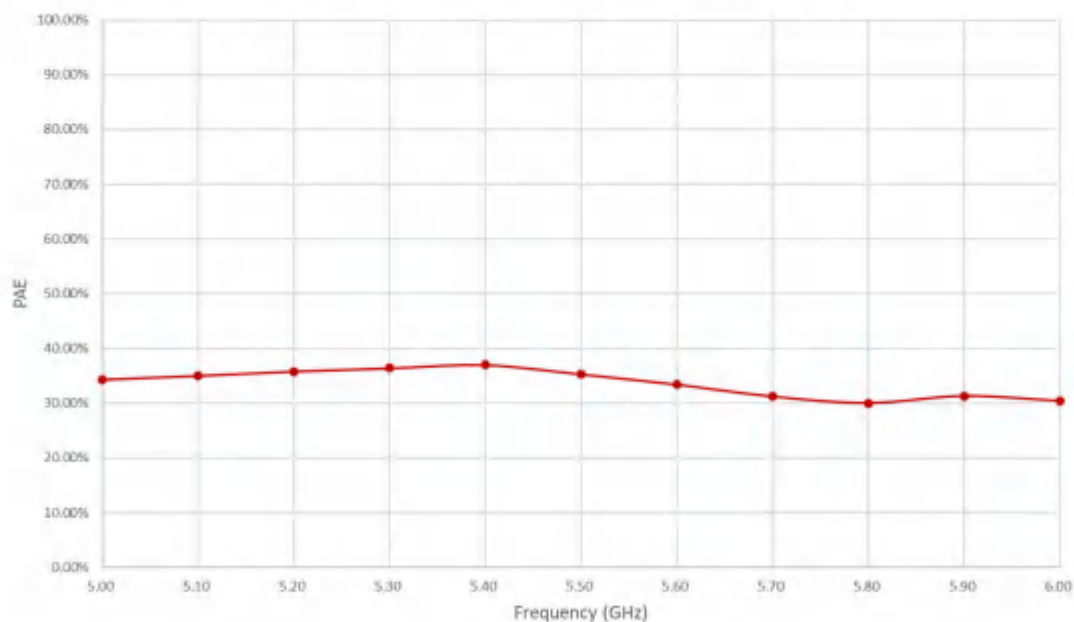


Figure 4: RFPA -0500-0600-49 P.A.E

Absolute Maximum Ratings

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

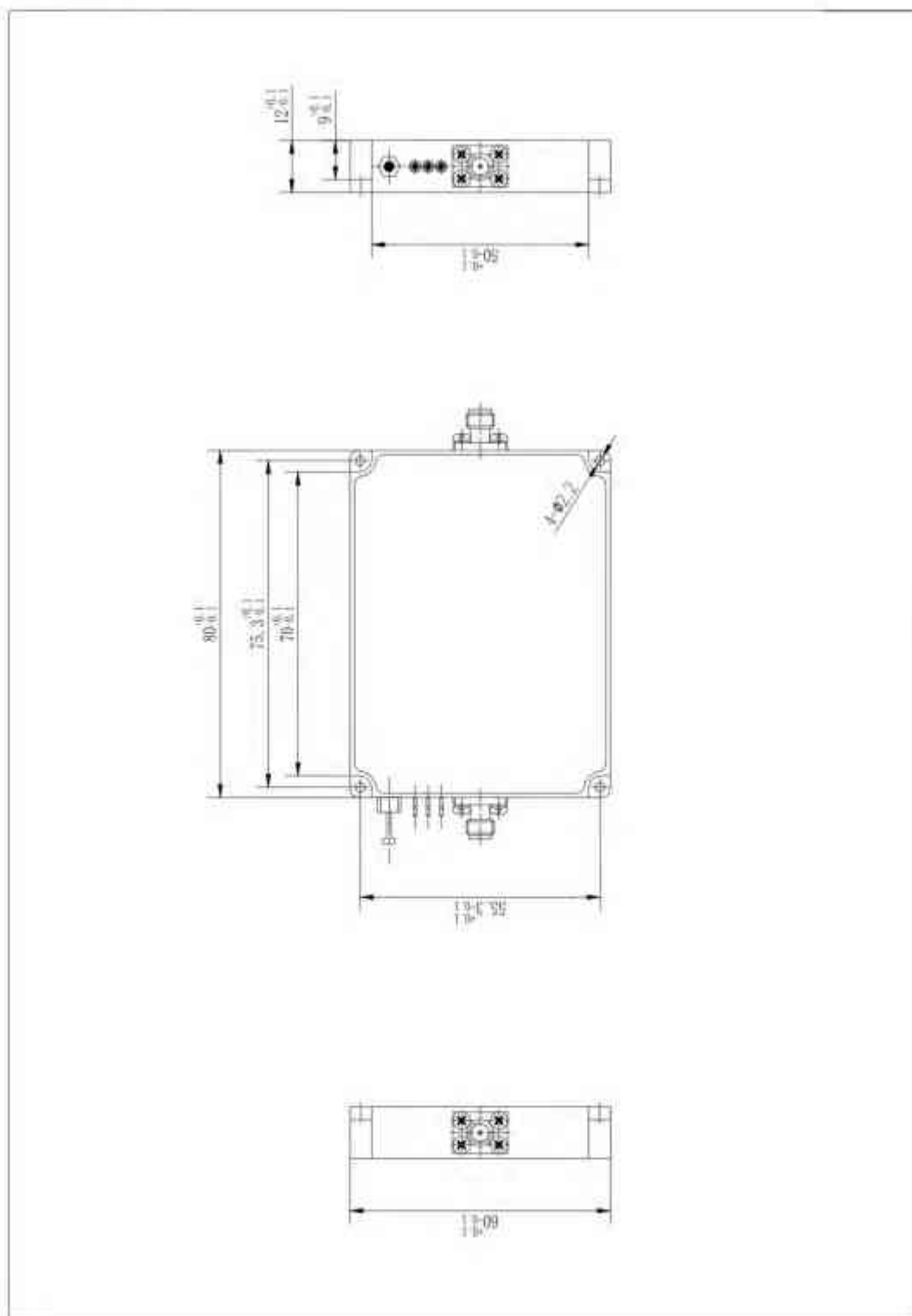
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

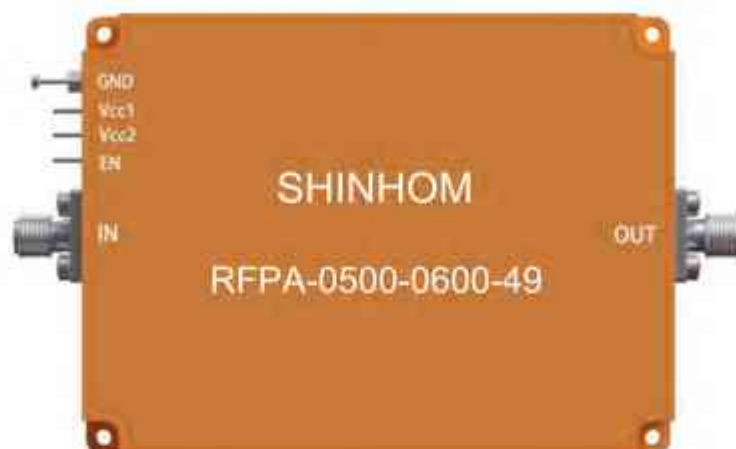
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

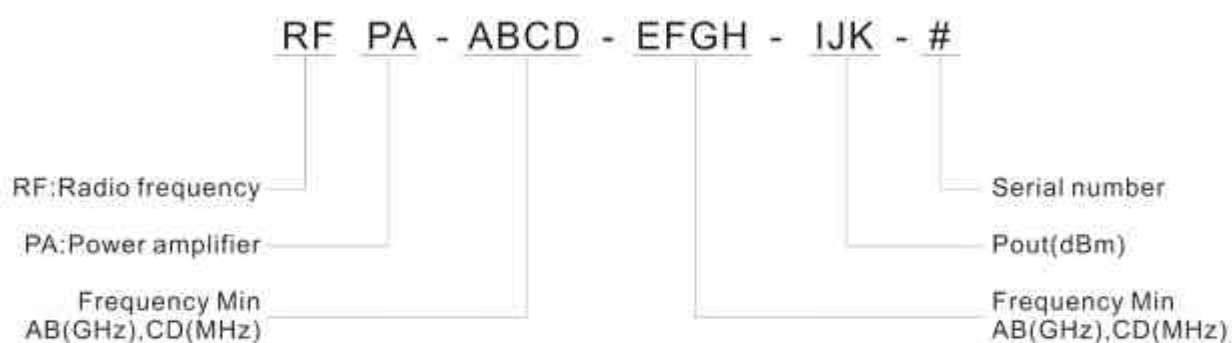




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 5.7 to 6.3 GHz.
- Typical values: Pout 49 dBm, Gain 41 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0570-0630-49

The RFPA-0570-0630-49 is a High Power Amplifier providing an output power of 49 dBm and a gain of 41 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	Typ	Max	
Frequency	5.7	-	6.3	GHz
Output Power		49		dBm
Small Signal Gain	40	41	42	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 °C			
Storage Temperature	-55 to 125 °C			

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.

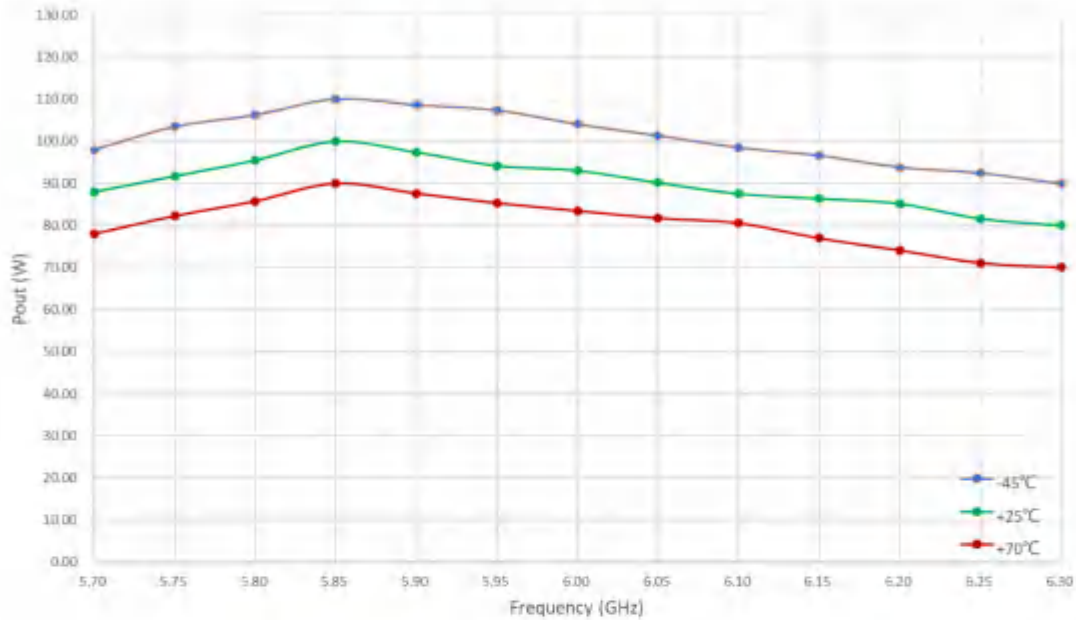


Figure 1: RFP-0570-0630-49 Psat

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.

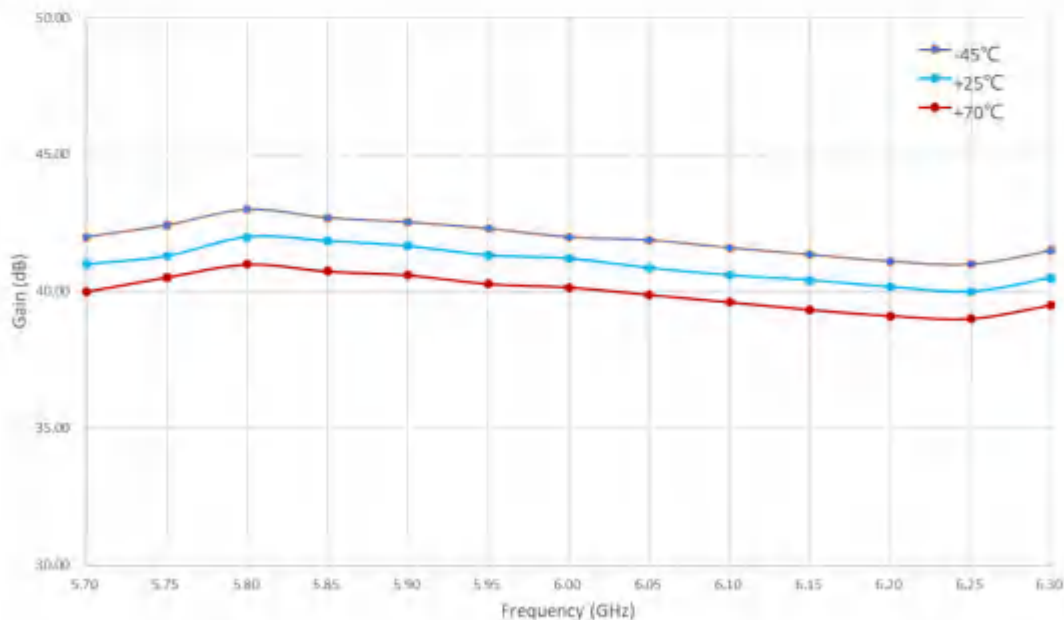


Figure 2: RFP-0570-0630-49 Small Signal Gain Vs Temperature

Input VSWR

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

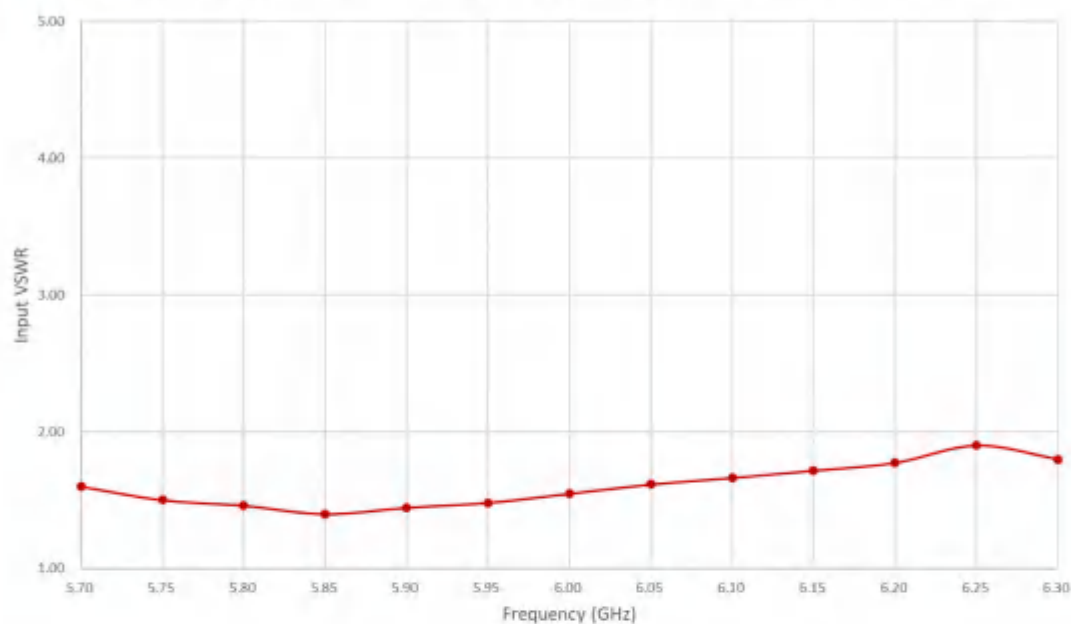


Figure 3: RFPA -0570-0630-49 Input VSWR

P.A.E

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

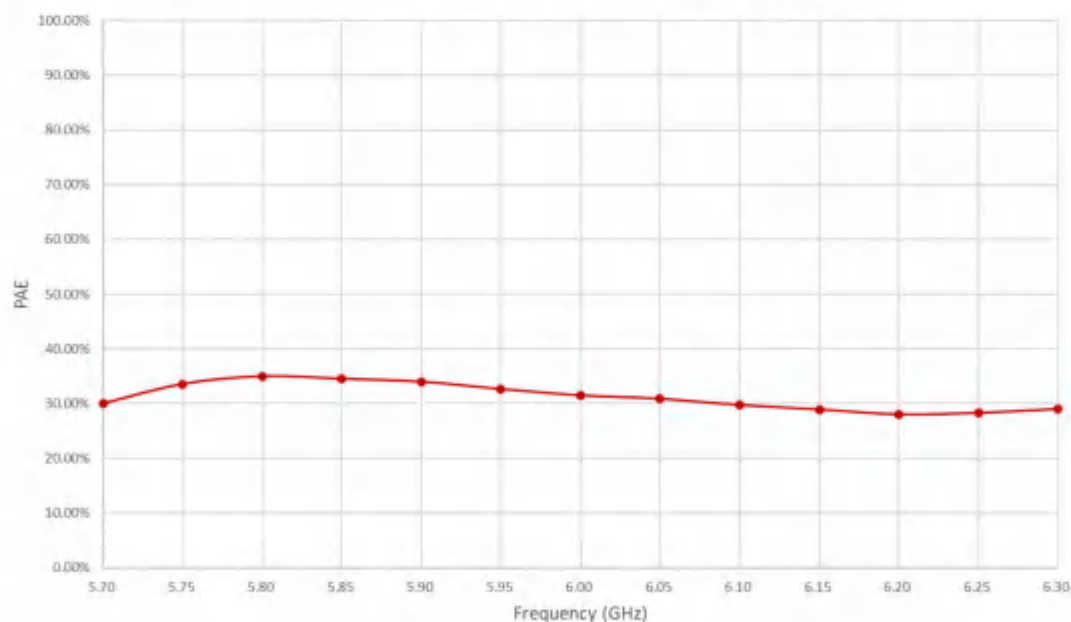


Figure 4: RFPA -0570-0630-49 P.A.E

Absolute Maximum Ratings

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

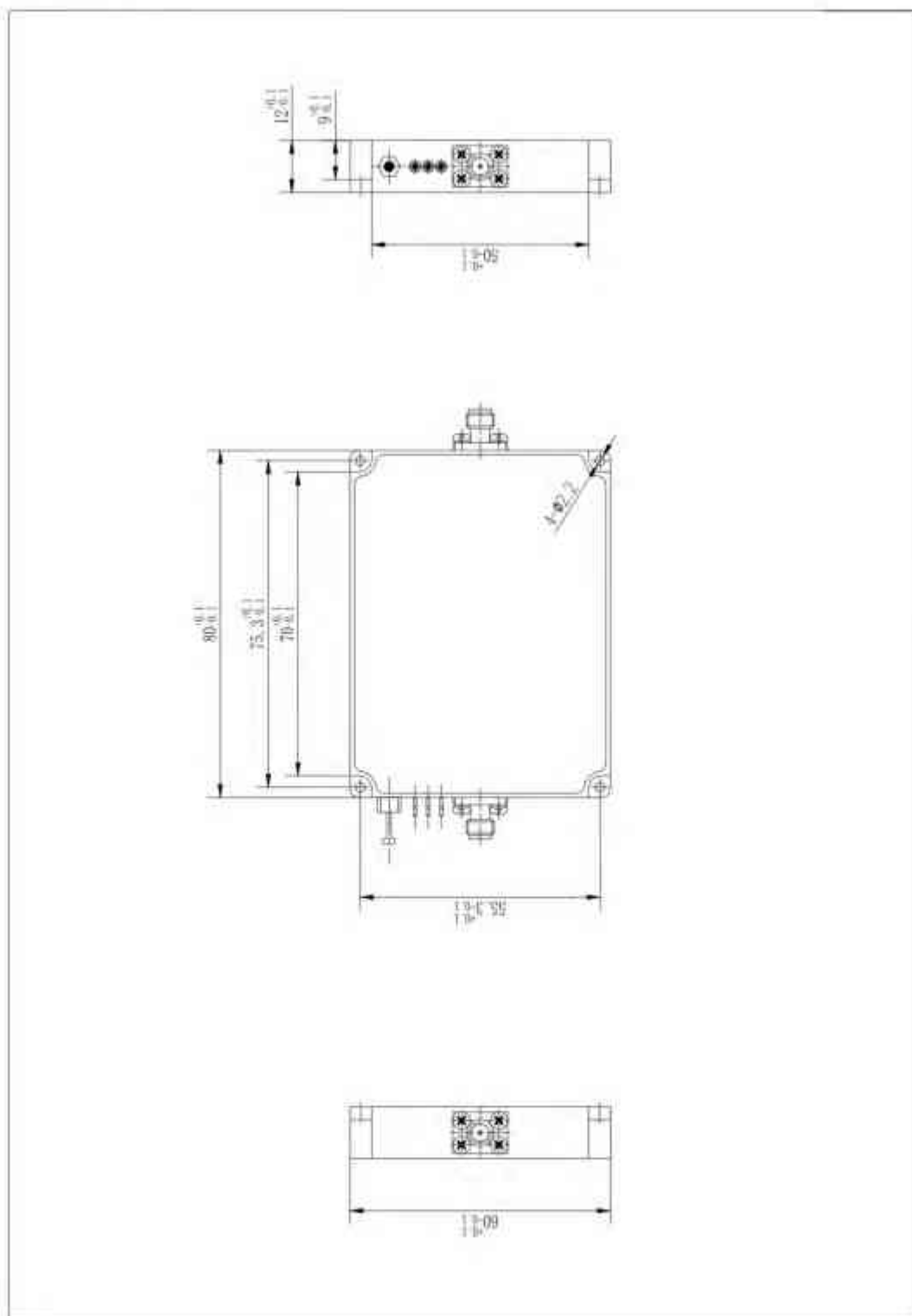
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

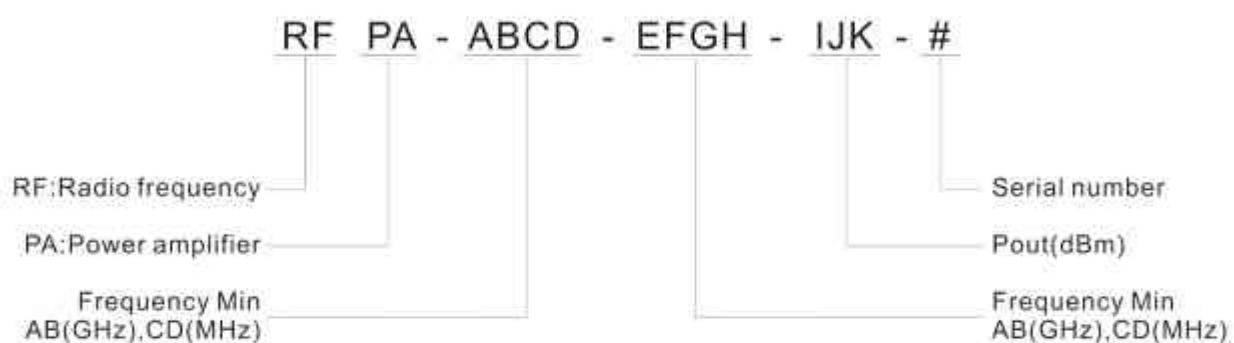




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 6.0 to 7.5 GHz.
- Typical values: Pout 43 dBm, Gain 39 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0600-0750-43

The RFPA-0600-0750-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 39 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	Typ	Max	
Frequency	6.0	-	7.5	GHz
Output Power		43		dBm
Small Signal Gain	37.5	39	40.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

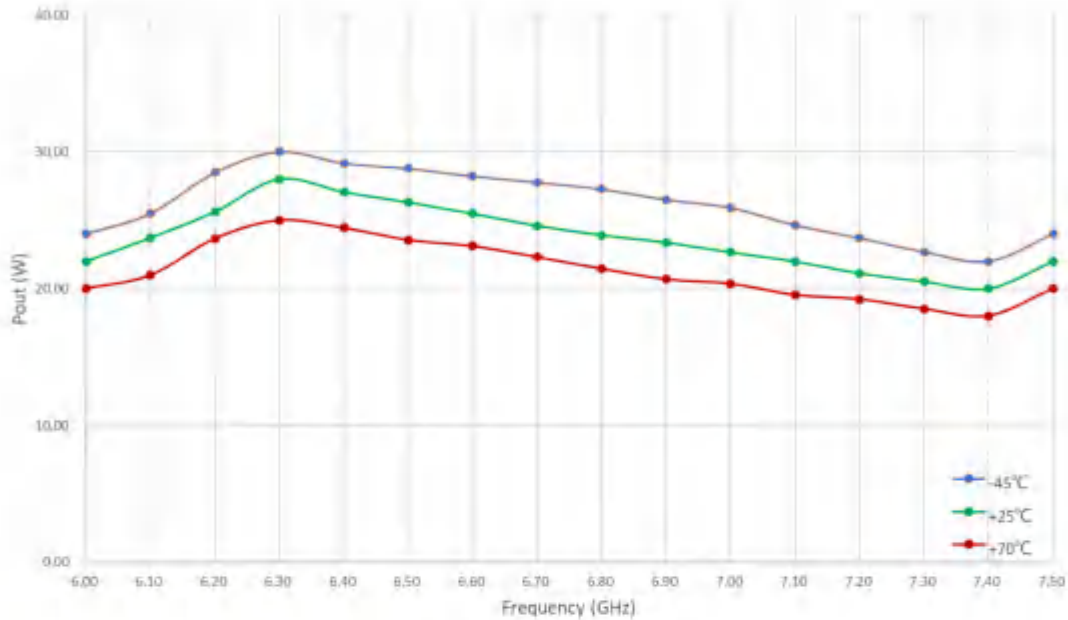


Figure 1: RFP-0600-0750-43 Psat

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.

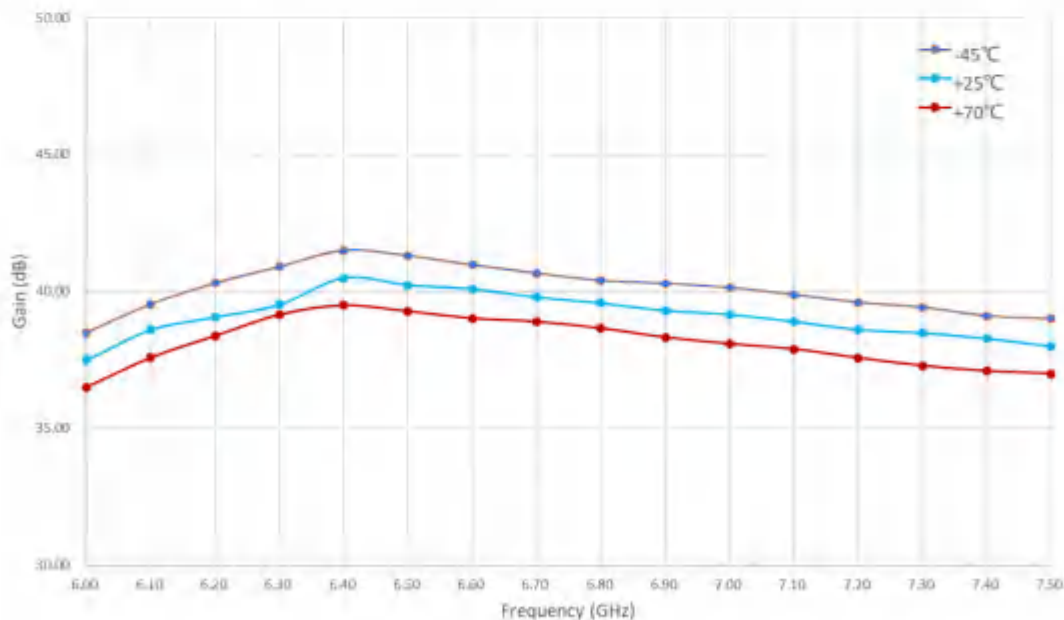


Figure 2: RFP-0600-0750-43 Small Signal Gain Vs Temperature

Input VSWR

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

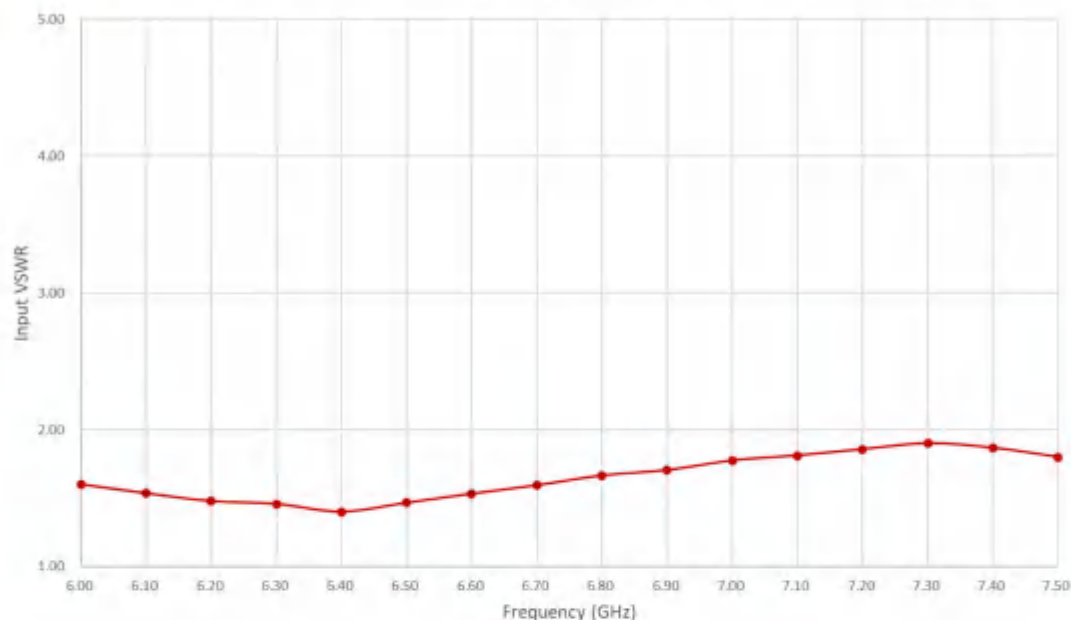


Figure 3: RFPA-0600-0750-43 Input VSWR

P.A.E

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

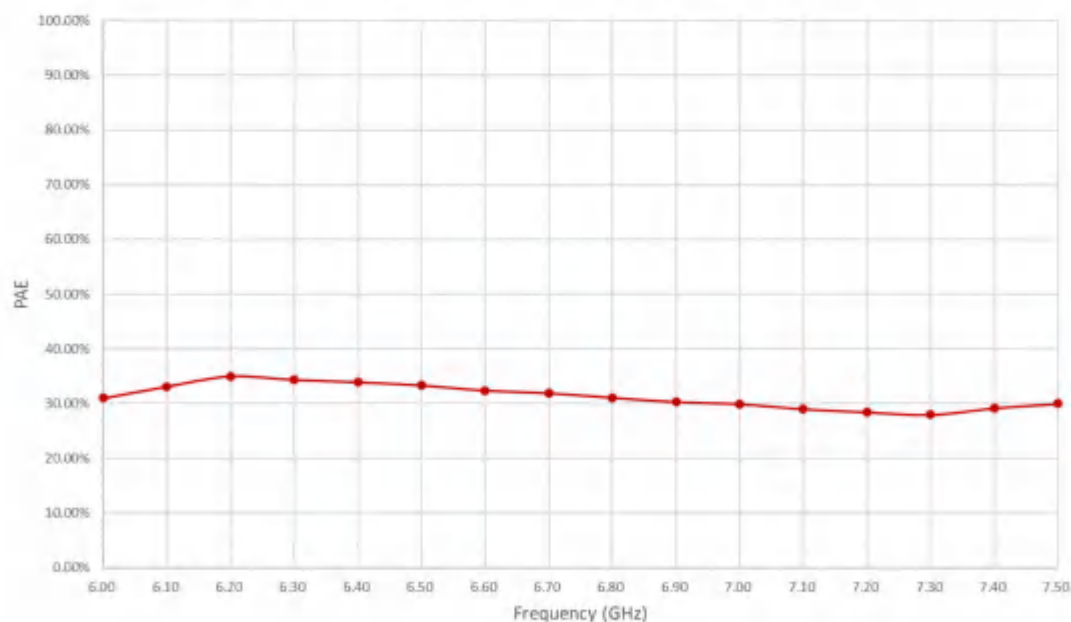


Figure 4: RFPA-0600-0750-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

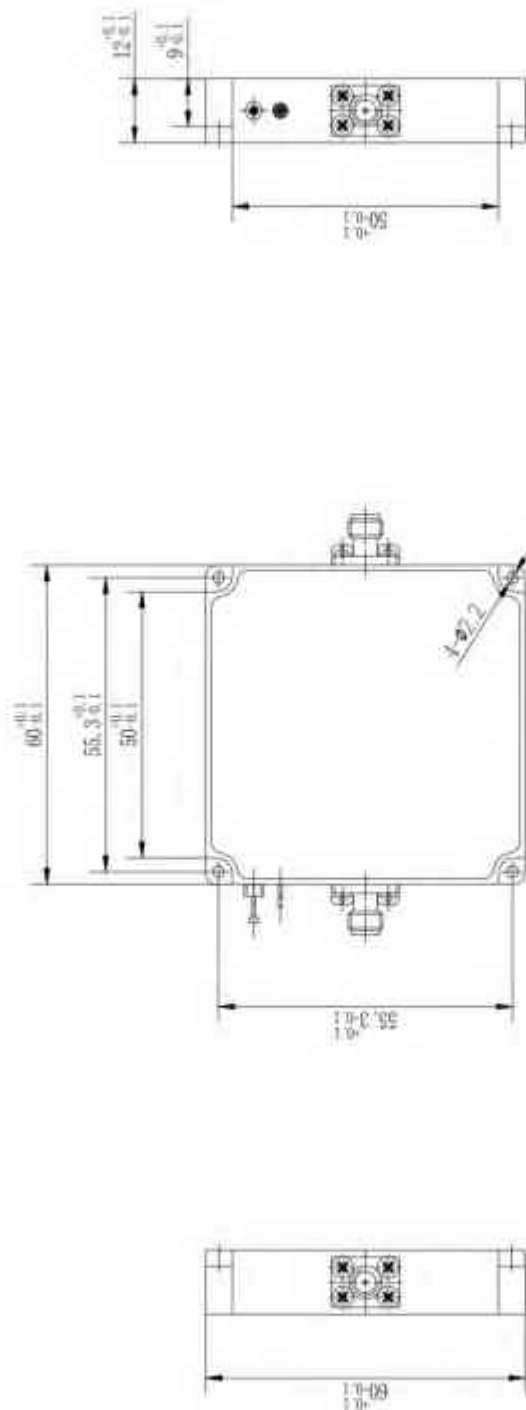
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

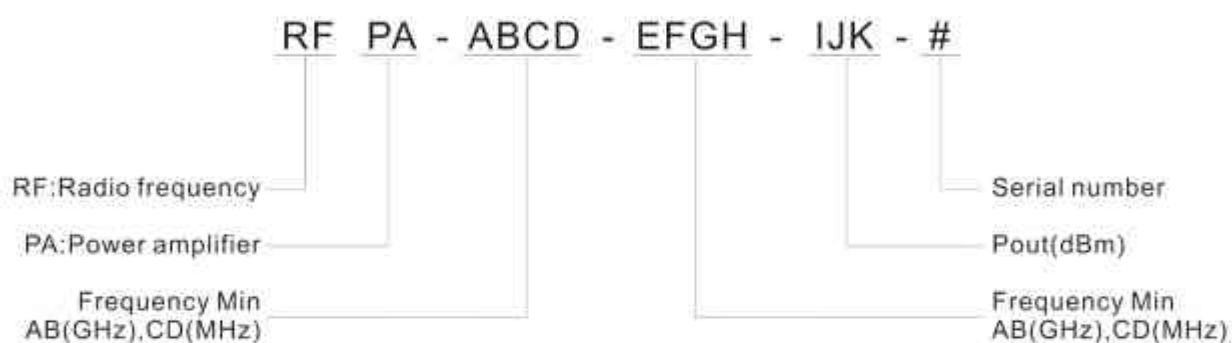




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V

Model Number Codification

Model Number





Main Features:

- Frequency Range: 6.4 to 7.2 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0640-0720-50

The RFP-0640-0720-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	6.4	-	7.2	GHz
Output Power		50		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 °C			
Storage Temperature	-55 to 125 °C			

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.

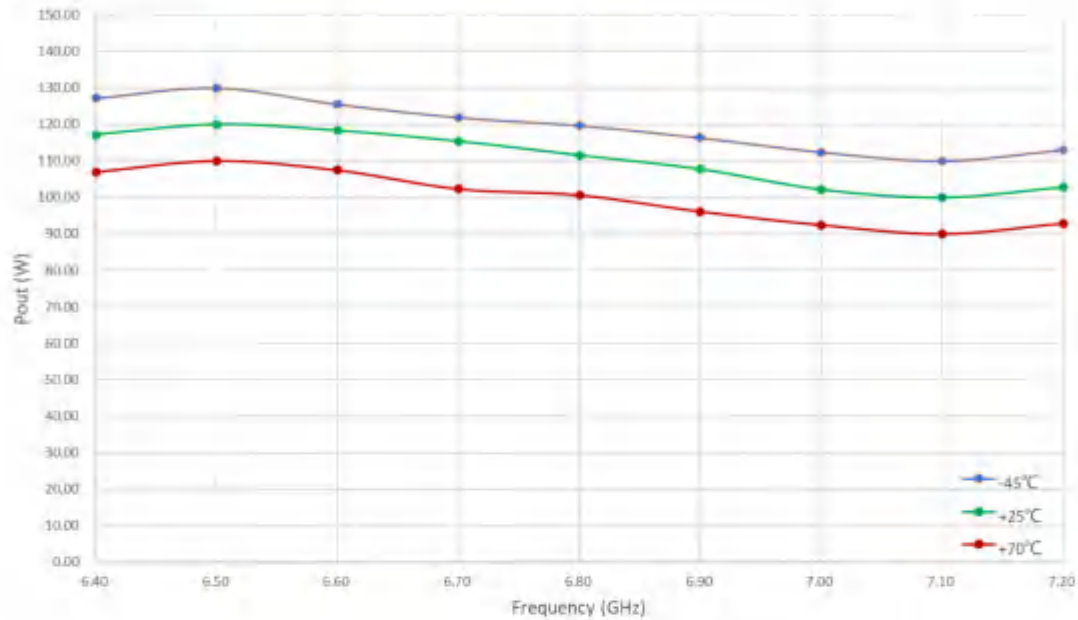


Figure 1: RFP-0640-0720-50 Psat

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.

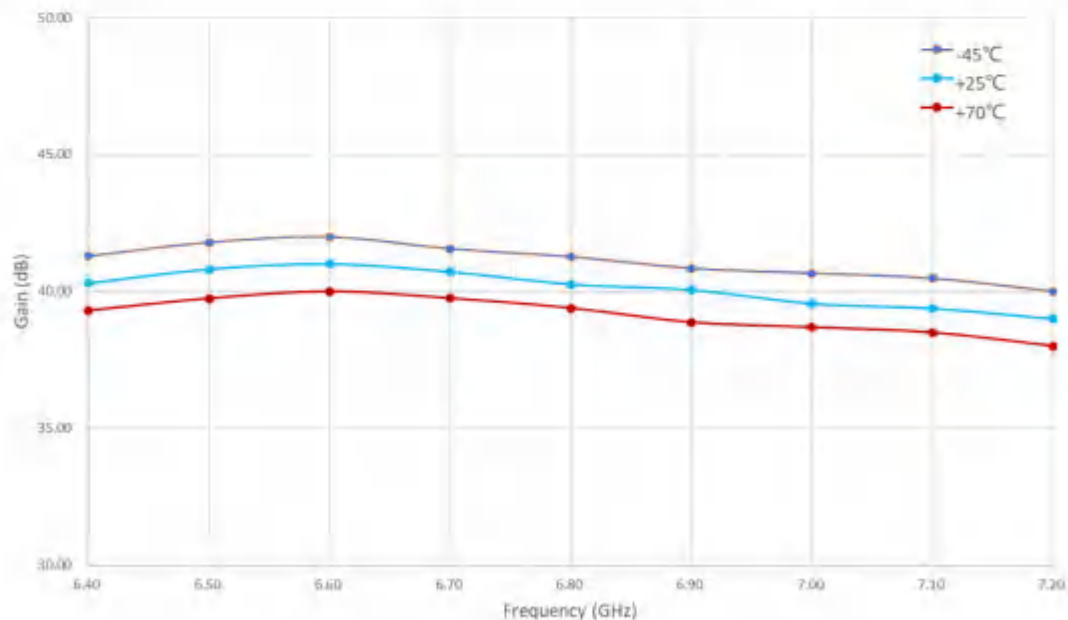


Figure 2: RFP-0640-0720-50 Small Signal Gain Vs Temperature

Input VSWR

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

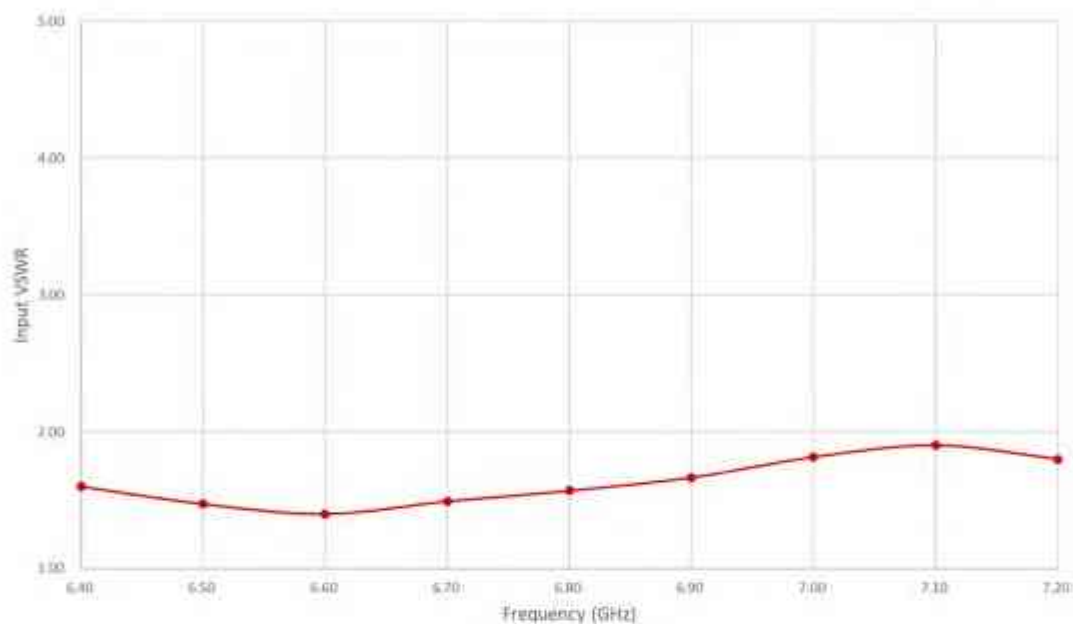


Figure 3: RFPA -0640-0720-50 Input VSWR

P.A.E

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

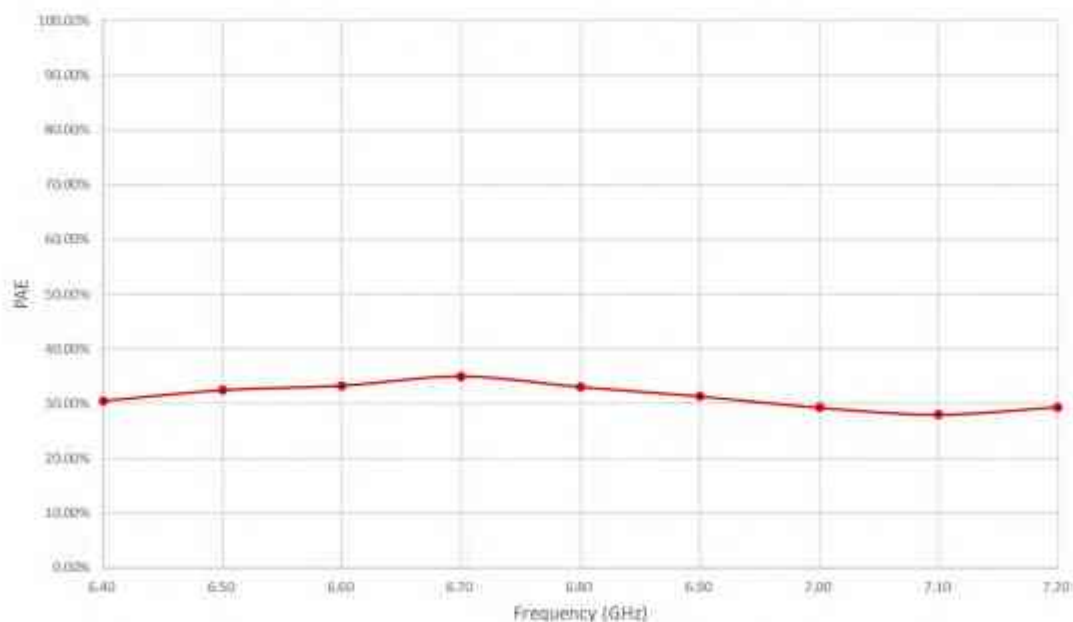


Figure 4: RFPA -0640-0720-50 P.A.E

Absolute Maximum Ratings

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

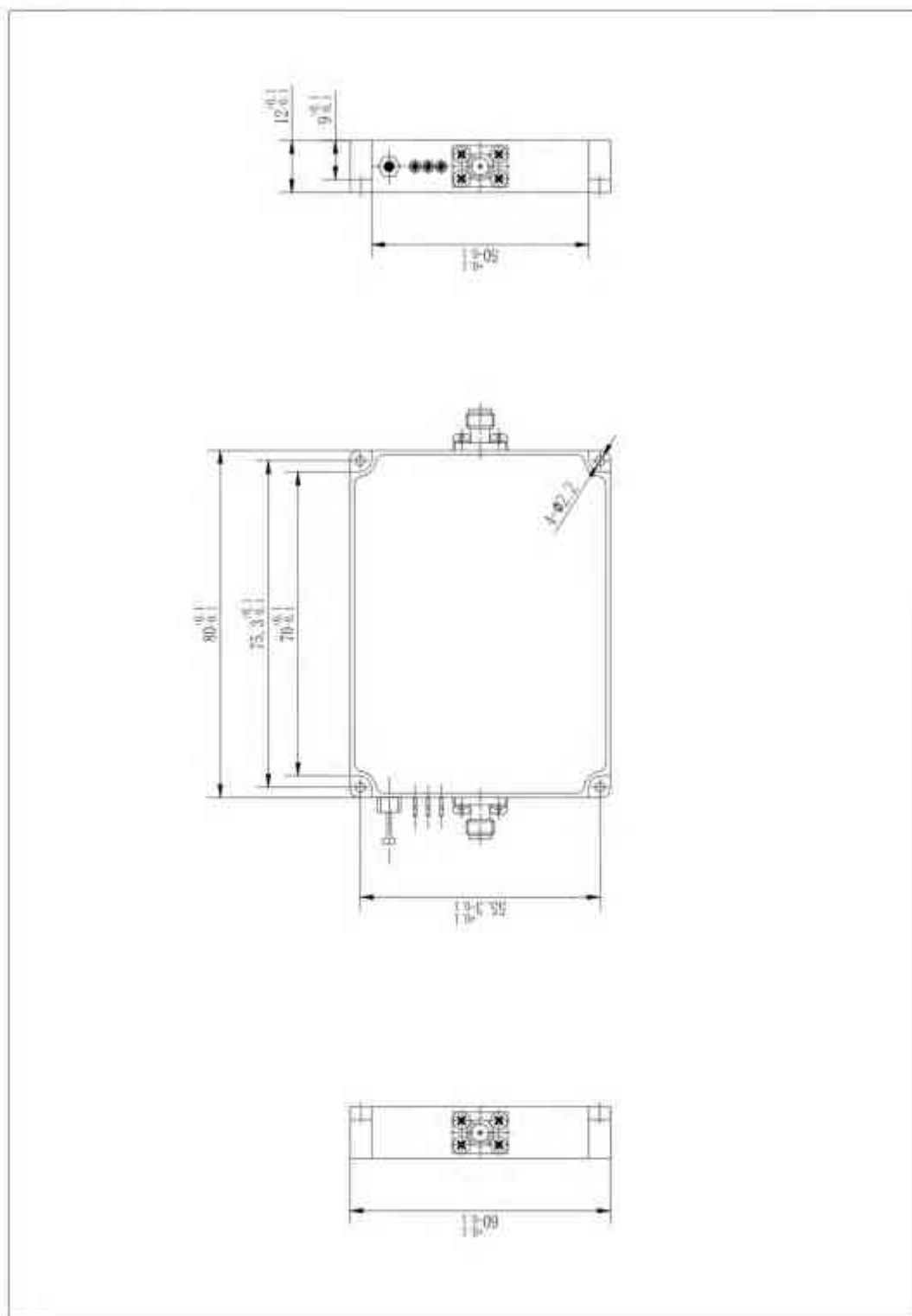
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

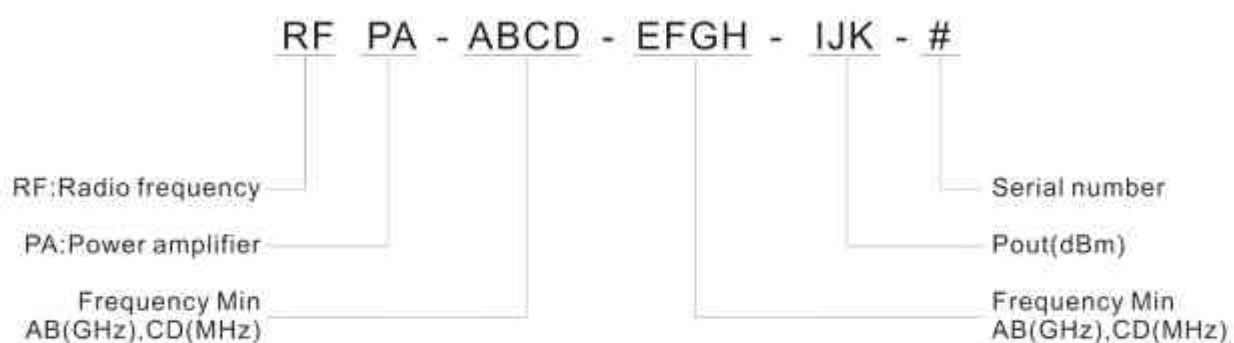




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 1.0 to 2.0 GHz.
- Typical values: Pout 50 dBm, Gain 42 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 2 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0100-0200-50

The RFP-0100-0200-50 is a High Power Amplifier providing an output power of 50 dBm and a gain of 42 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	Typ	Max	
Frequency	1.0	–	2.0	GHz
Output Power		50		dBm
Small Signal Gain	40	42	44	dB
Gain Flatness	-	± 2	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

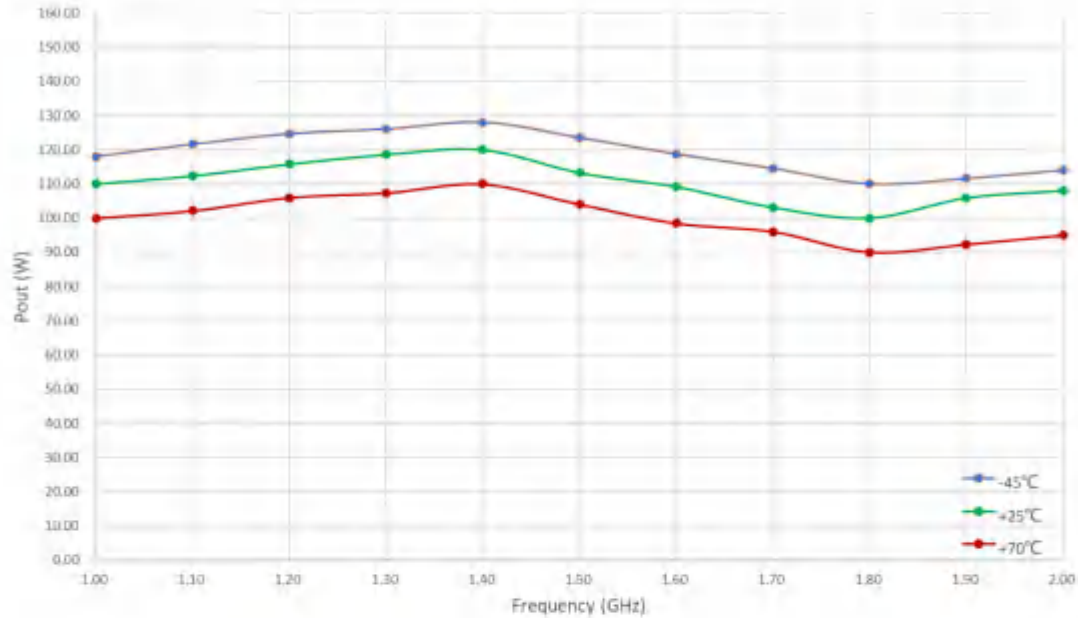


Figure 1: RFP A-0100-0200-50 Psat

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.

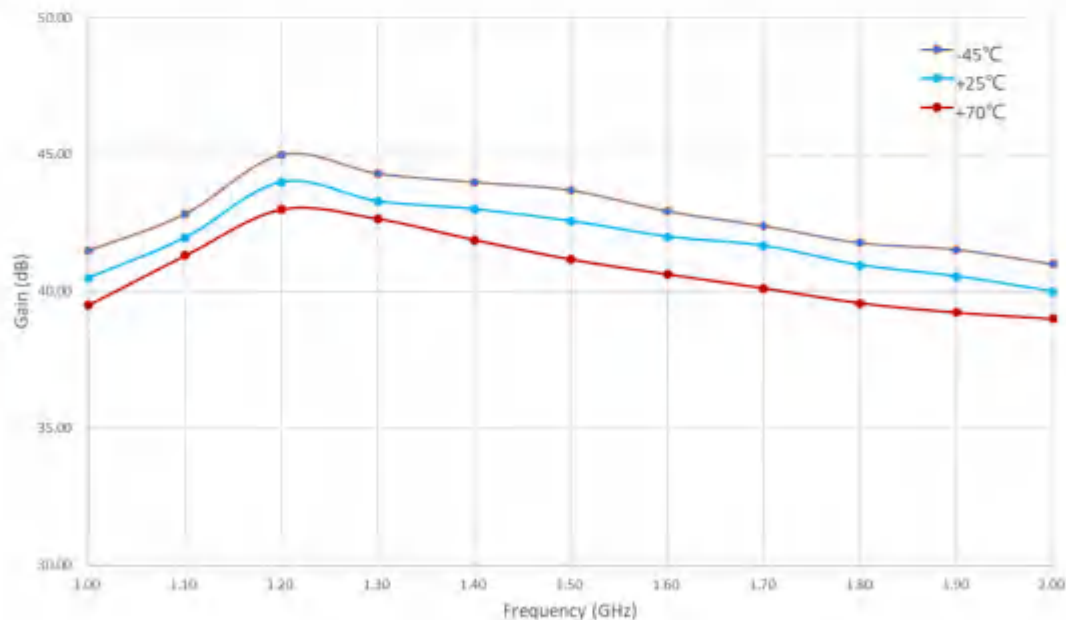


Figure 2: RFP A-0100-0200-50 Small Signal Gain Vs Temperature

Input VSWR

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

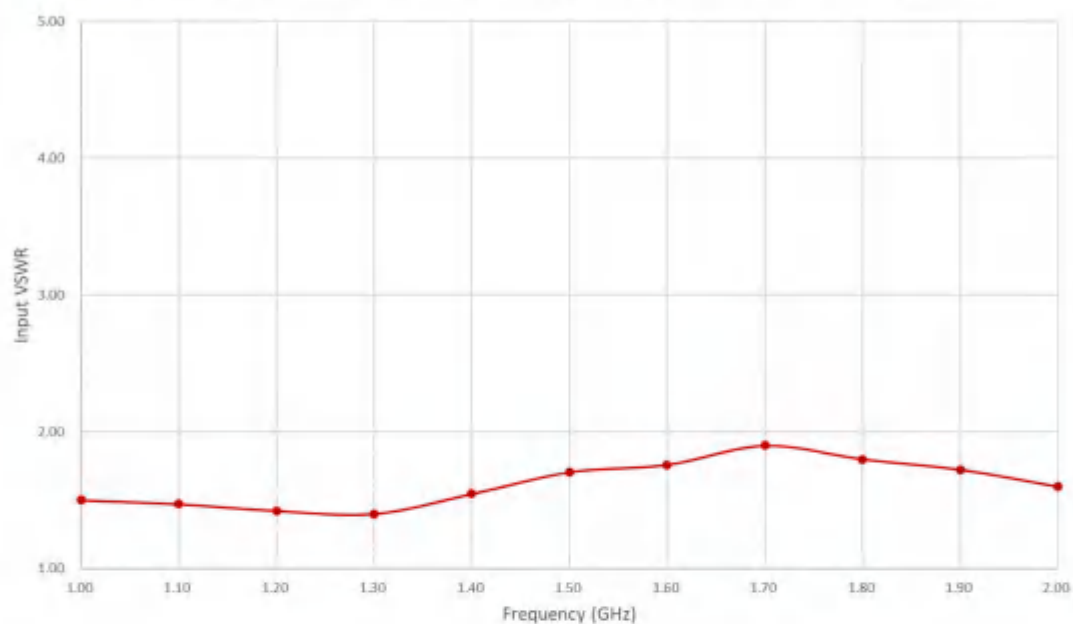


Figure 3: RFPA -0100-0200-50 Input VSWR

P.A.E

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

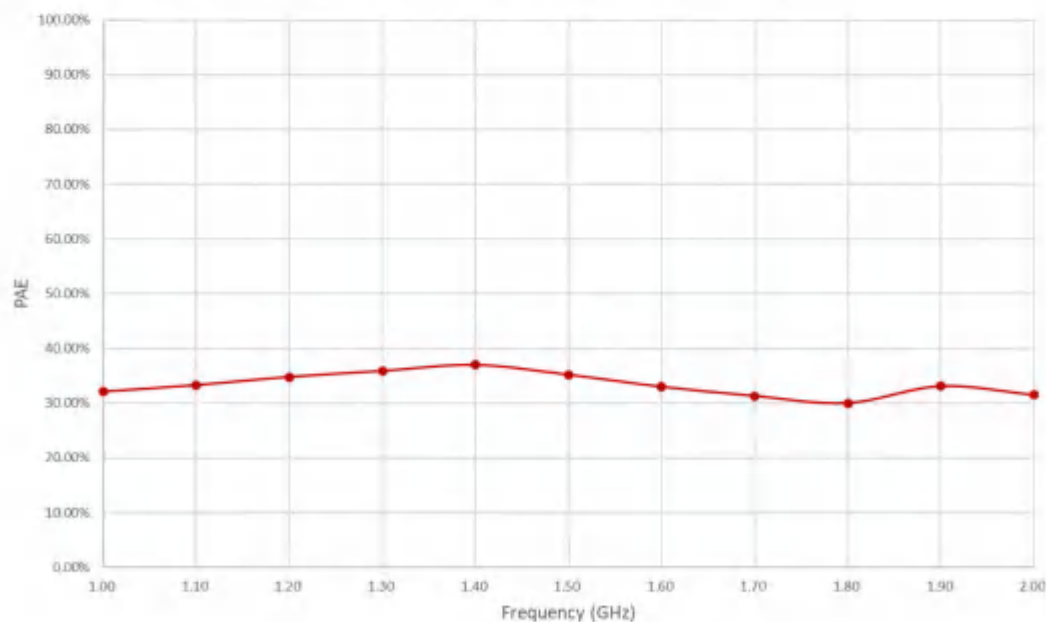


Figure 4: RFPA -0100-0200-50 P.A.E

Absolute Maximum Ratings

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

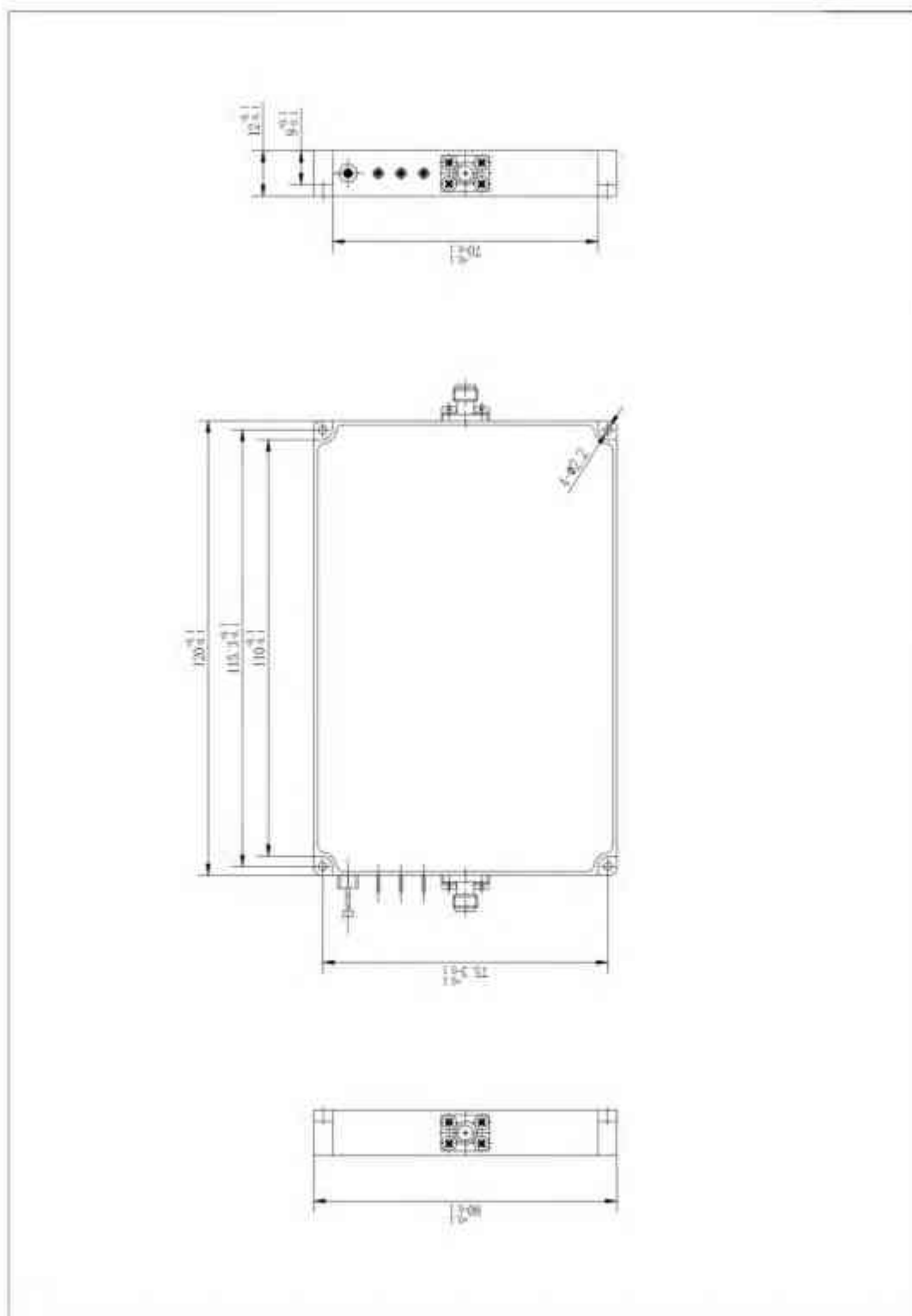
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

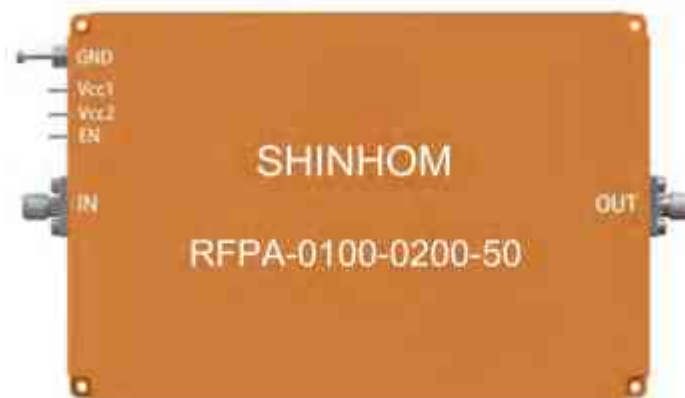
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

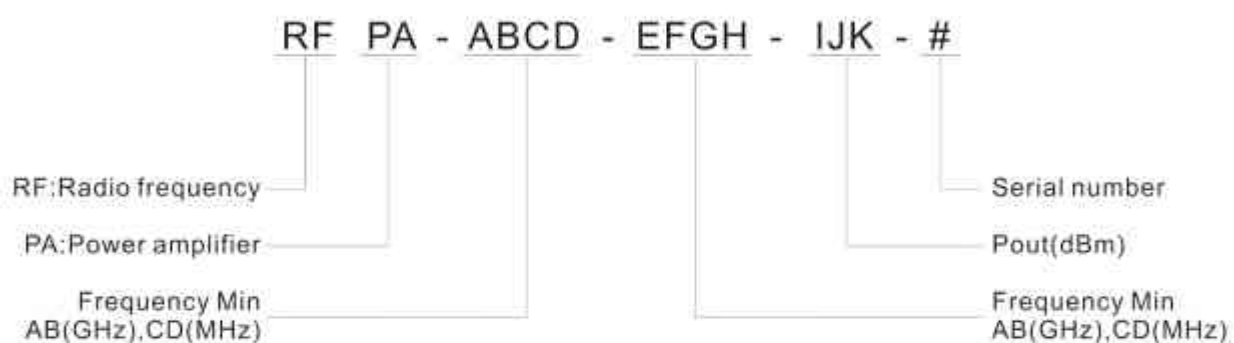




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 1.0 to 2.0 GHz.
- Typical values: Pout 51 dBm, Gain 40 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 2 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0100-0200-51

The RFP-0100-0200-51 is a High Power Amplifier providing an output power of 51 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	Typ	Max	
Frequency	1.0	-	2.0	GHz
Output Power		51		dBm
Small Signal Gain	38	40	42	dB
Gain Flatness	-	± 2	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		32		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

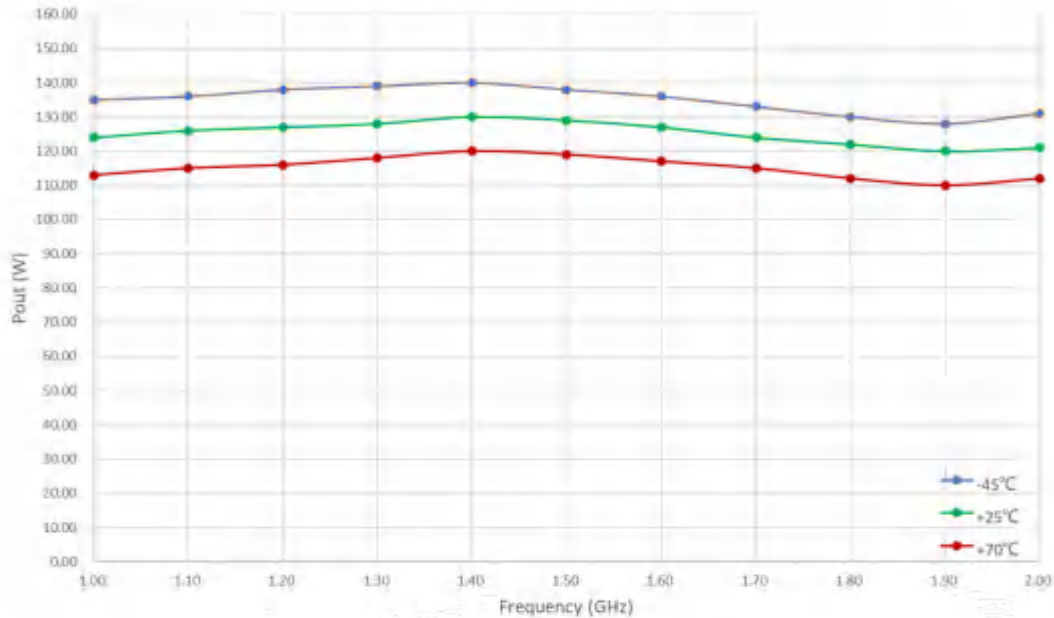


Figure 1: RFP A-0100-0200-51 Psat

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.

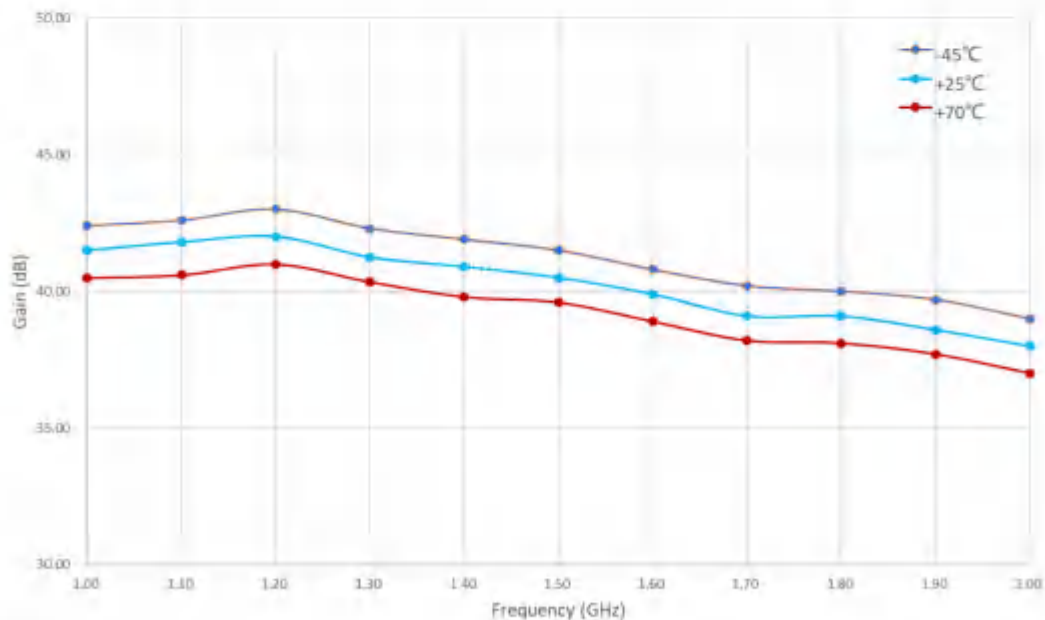


Figure 2: RFP A-0100-0200-51 Small Signal Gain Vs Temperature

Input VSWR

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

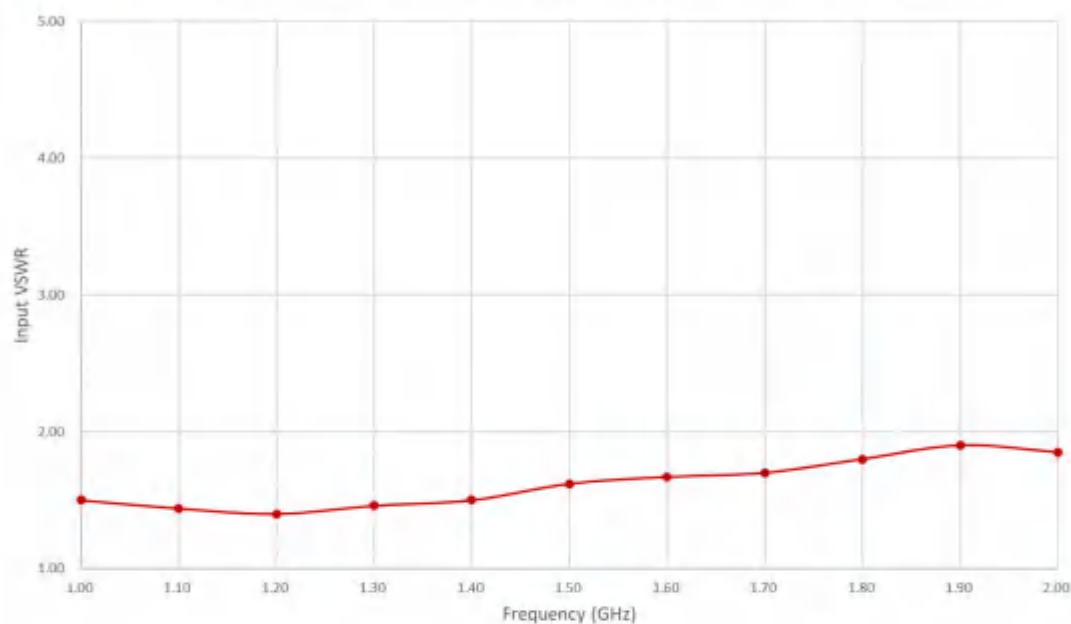


Figure 3: RFPA-0100-0200-51 Input VSWR

P.A.E

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

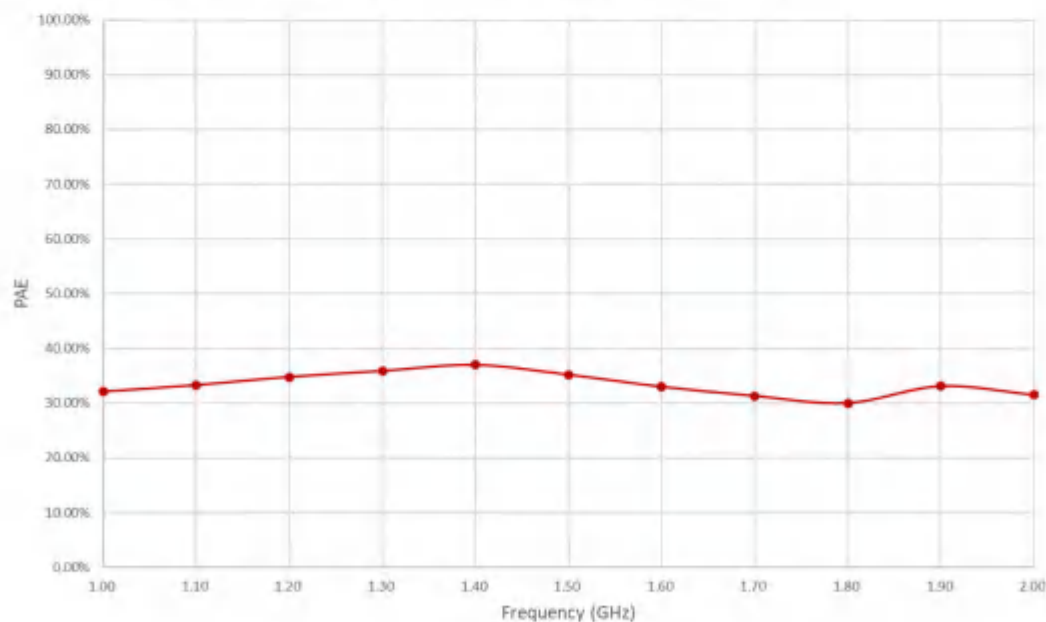


Figure 4: RFPA-0100-0200-51 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+36 VDC
Maximum Input Power (CW)	+20 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

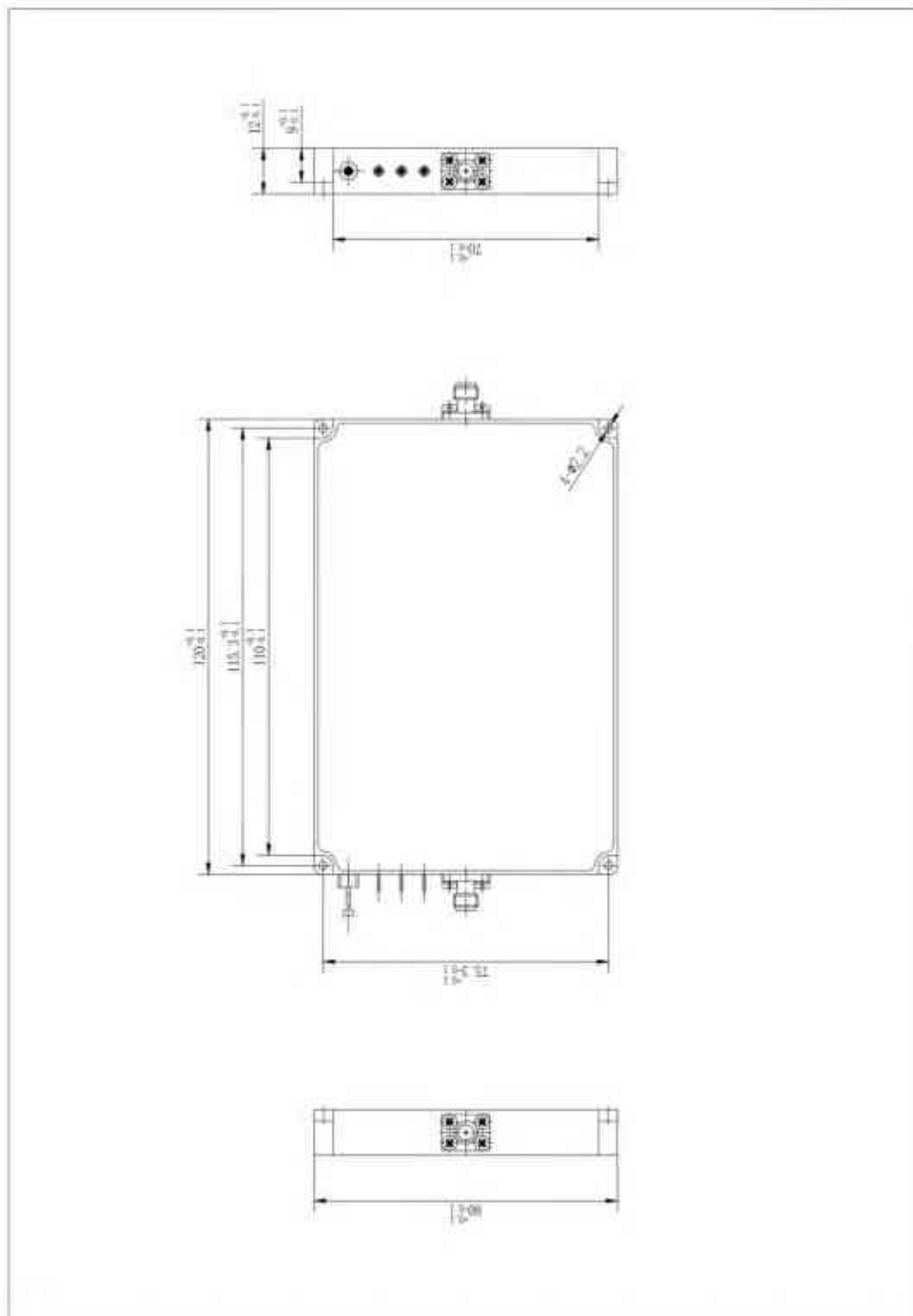
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

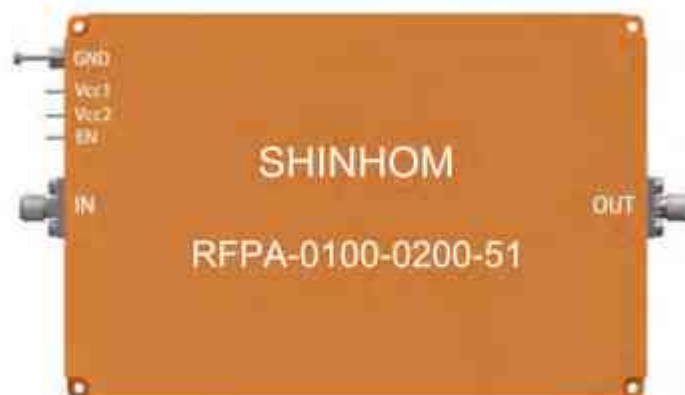
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

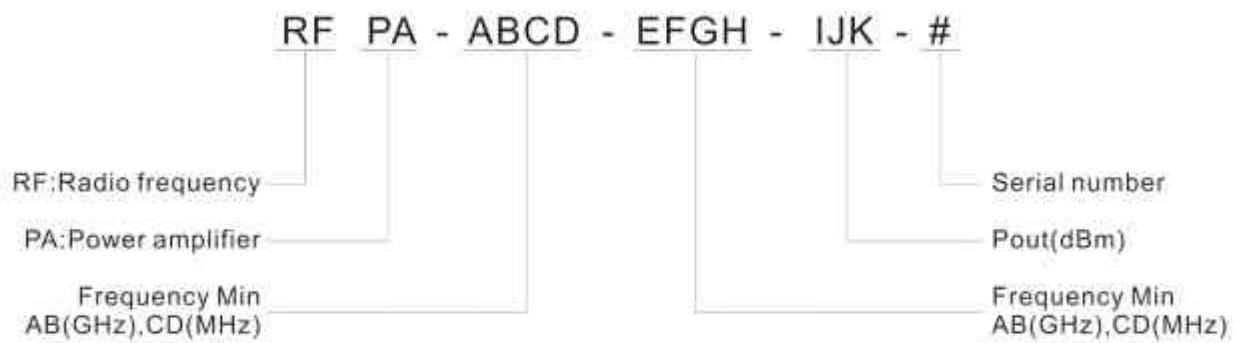




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 3.0 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0200-0300-50

The RFP-0200-0300-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	2.0	–	3.0	GHz
Output Power		50		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		32		V
RF Connectors	SMA Female IN/OUT-			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

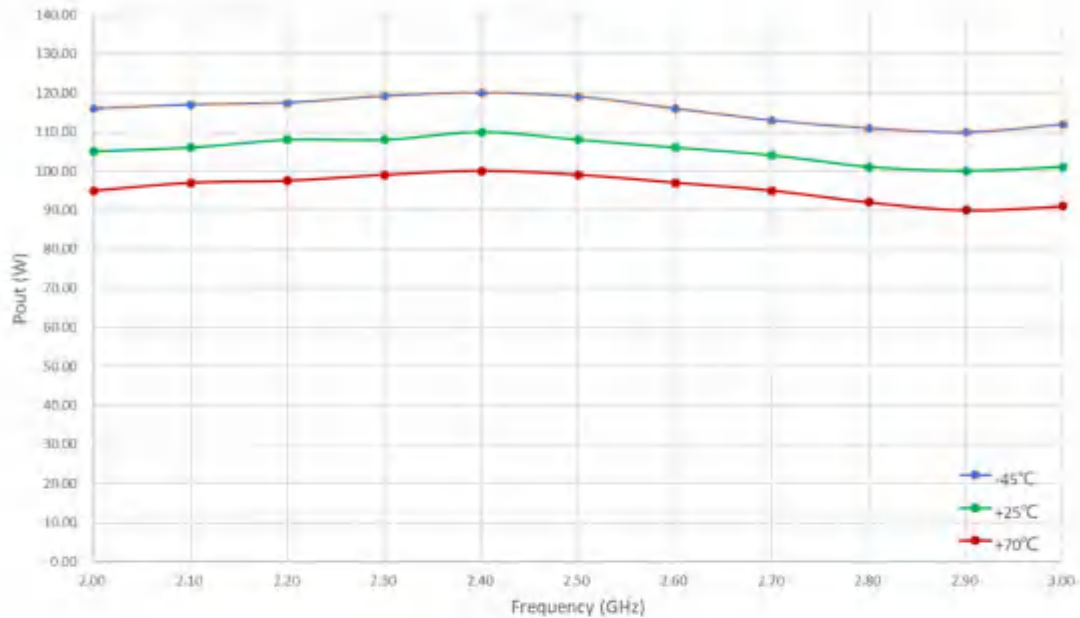


Figure 1: RFP-0200-0300-50 Psat

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.

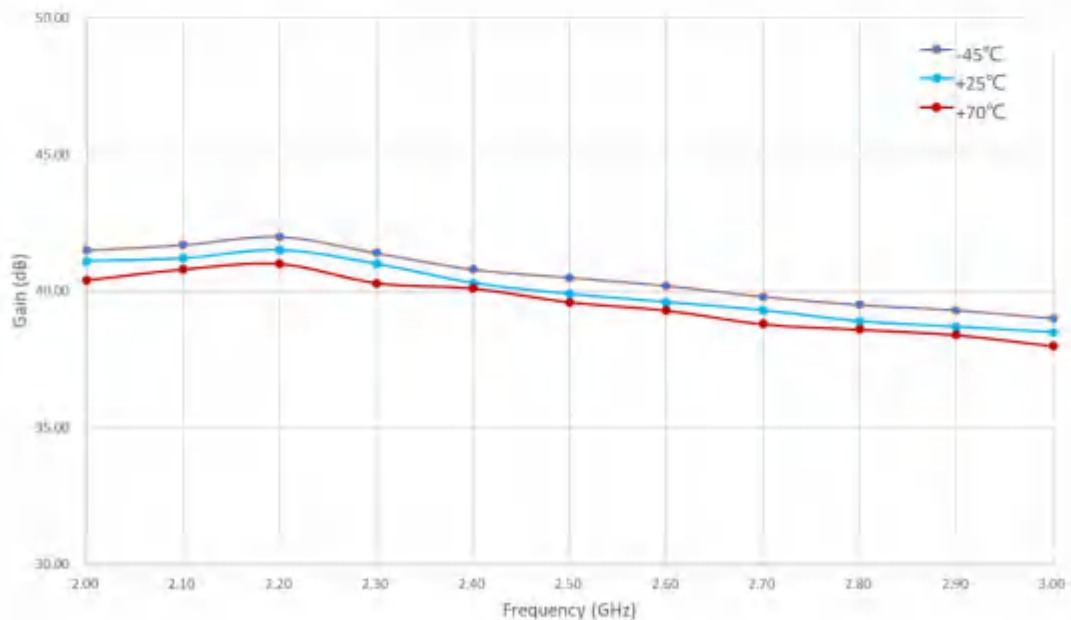


Figure 2: RFP-0200-0300-50 Small Signal Gain Vs Temperature

Input VSWR

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

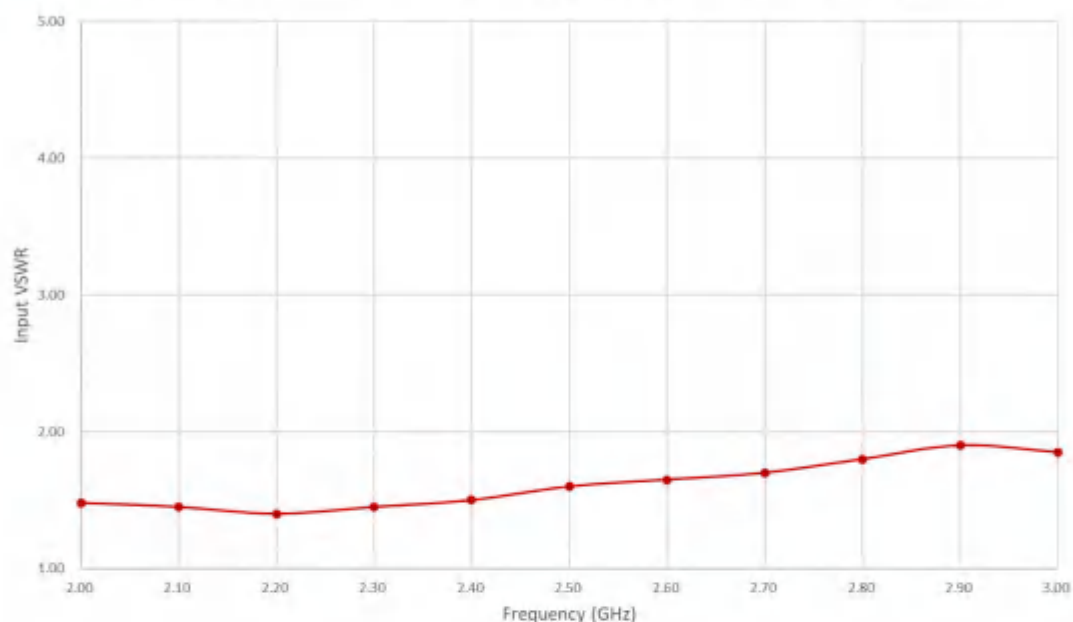


Figure 3: RFPA-0200-0300-50 Input VSWR

P.A.E

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

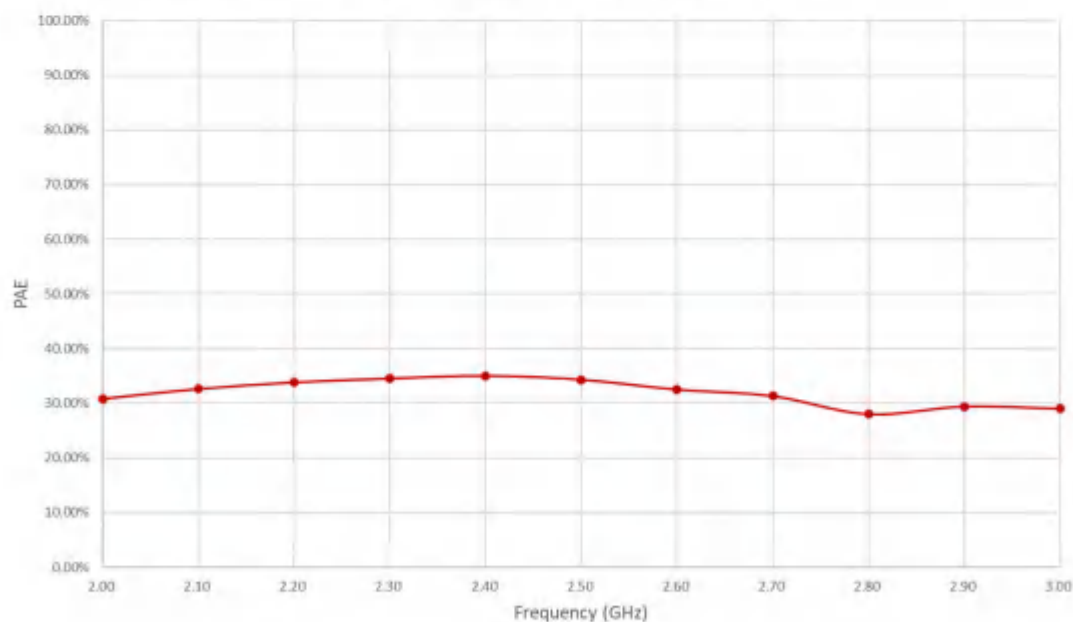


Figure 4: RFPA -0200-0300-50 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+36 VDC
Maximum Input Power (CW)	+20 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

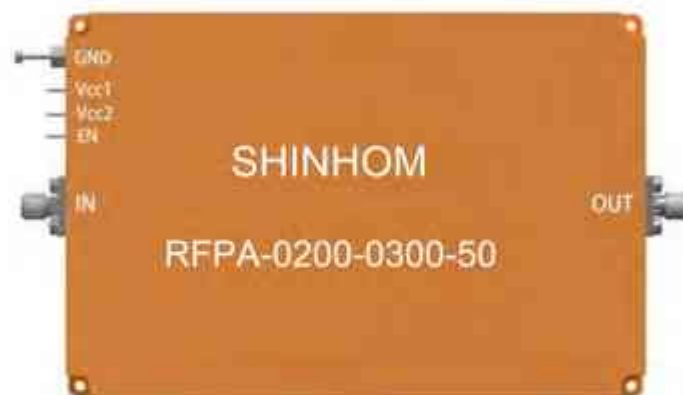
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

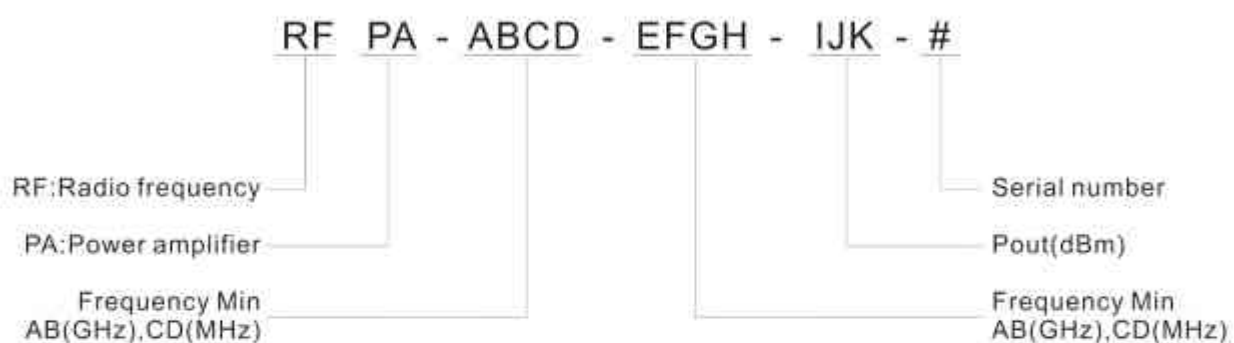
[Http://www.shinhom.com](http://www.shinhom.com)



Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.03 to 0.3 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0003-0030-50

The RFP-0003-0030-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	0.03	-	0.3	GHz
Output Power		50		dBm
Small Signal Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

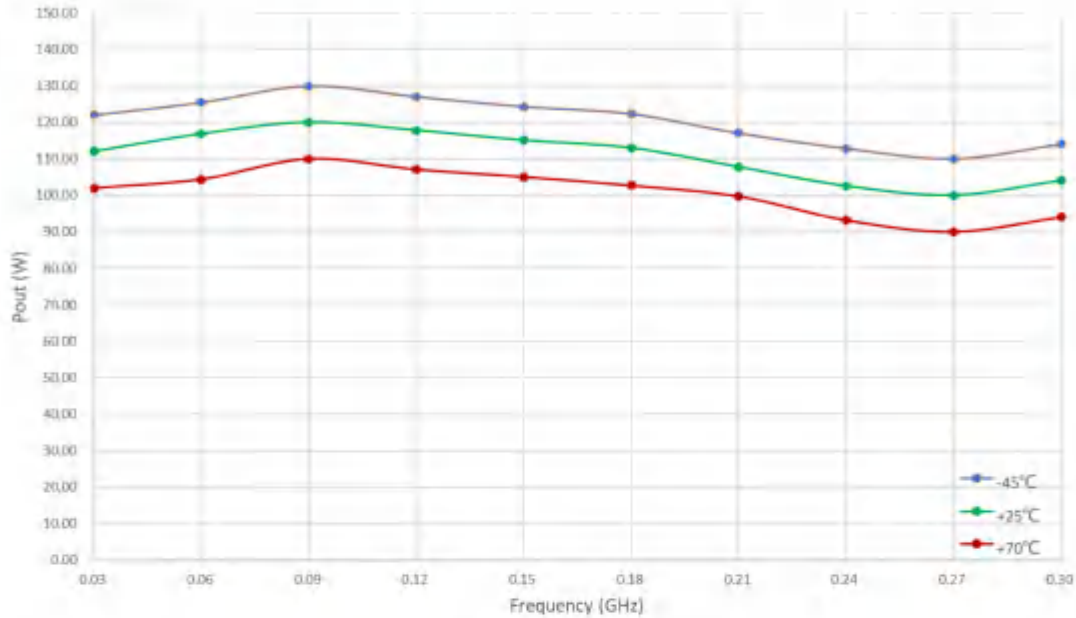


Figure 1: RFP-0003-0030-50 Psat

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.

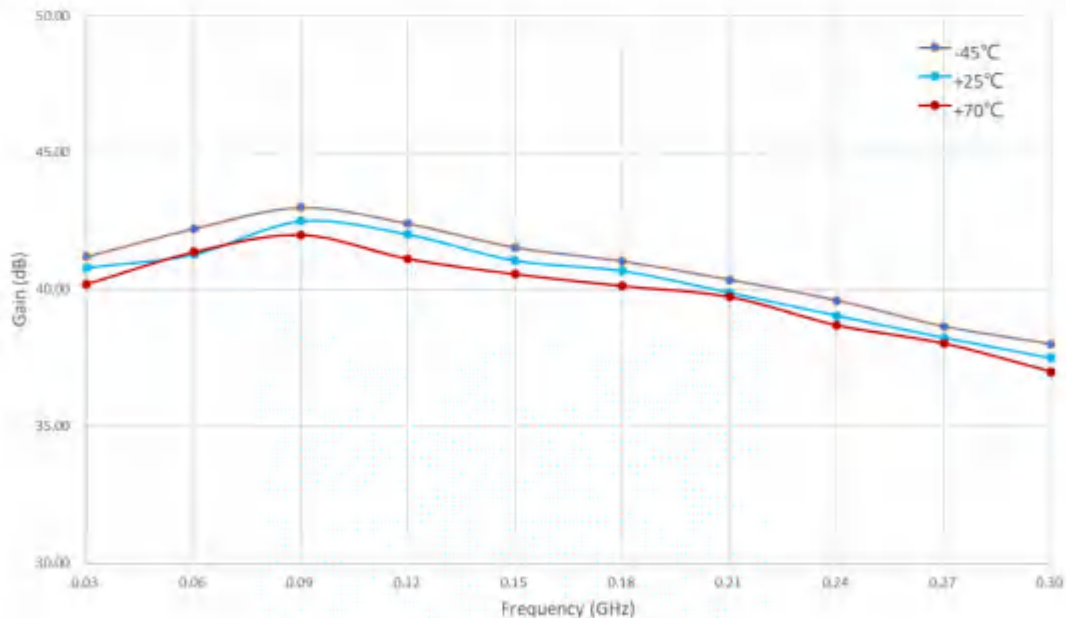


Figure 2: RFP-0003-0030-50 Small Signal Gain Vs Temperature

Input VSWR

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

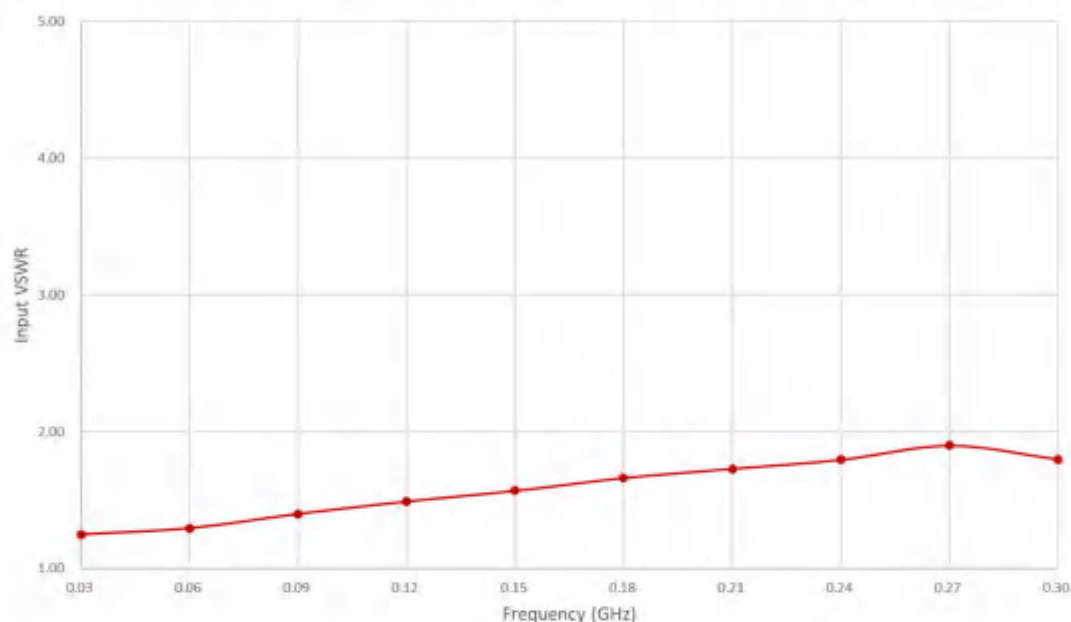


Figure 3: RFP-0003-0030-50 Input VSWR

P.A.E

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

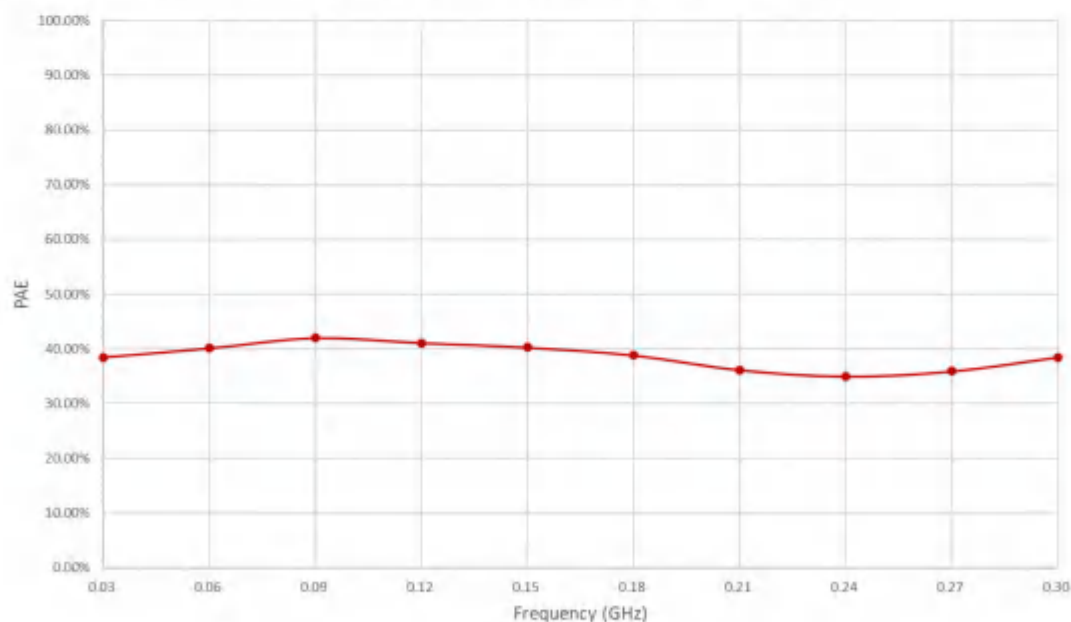


Figure 4: RFP-0003-0030-50 P.A.E

Absolute Maximum Ratings

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

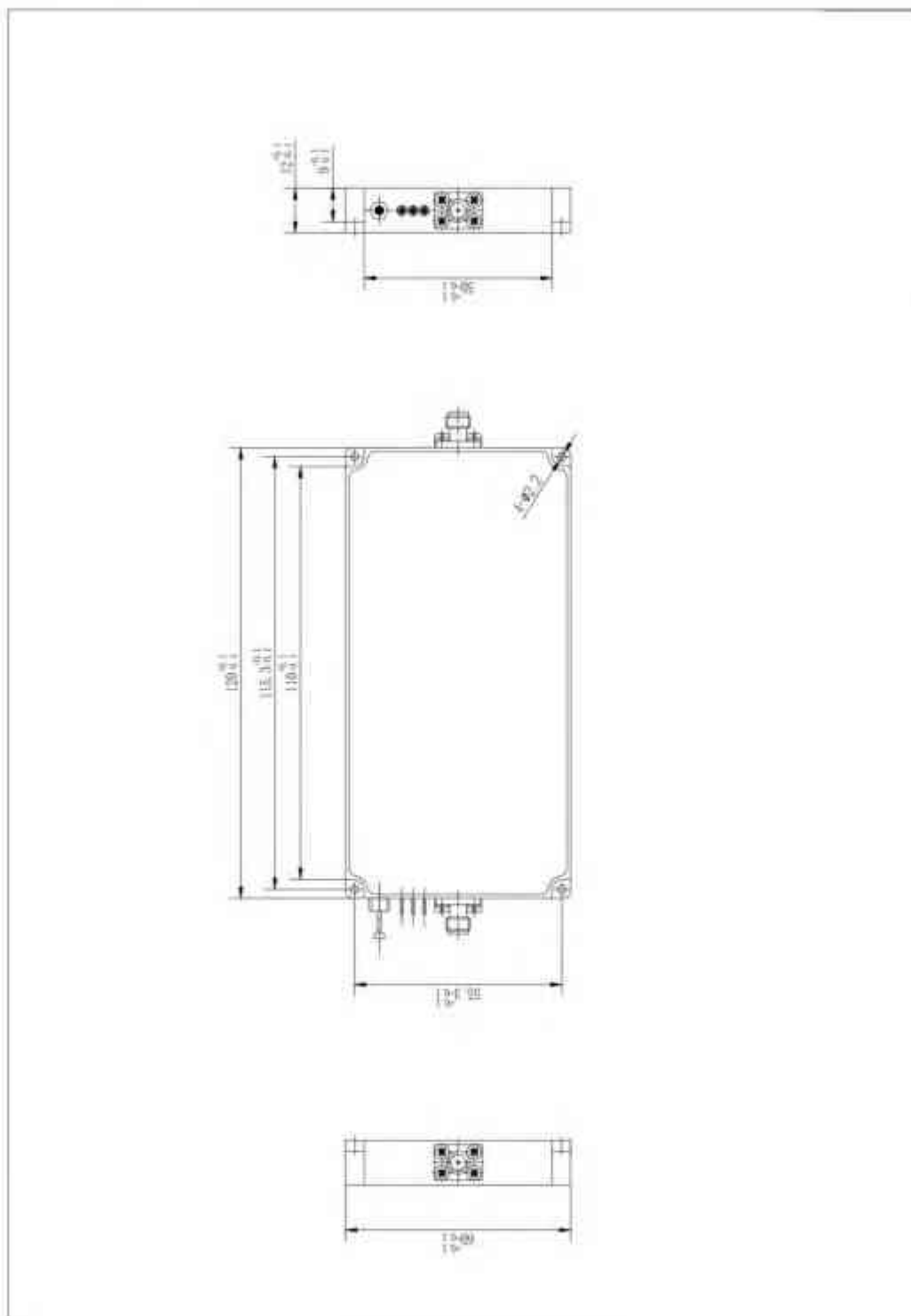
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

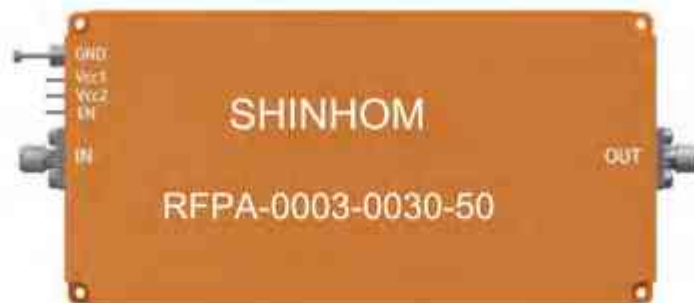
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

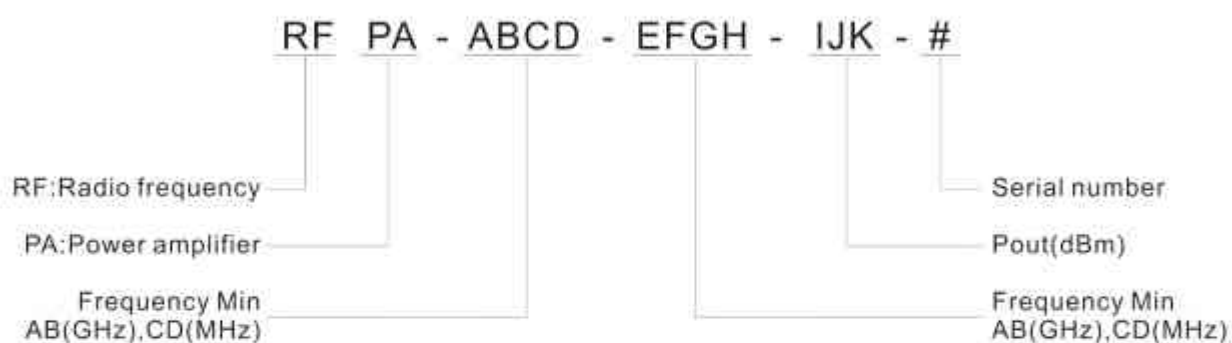




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.3 to 0.8 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0030-0080-50

The RFPA-0030-0080-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	0.3	–	0.8	GHz
Output Power		50		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

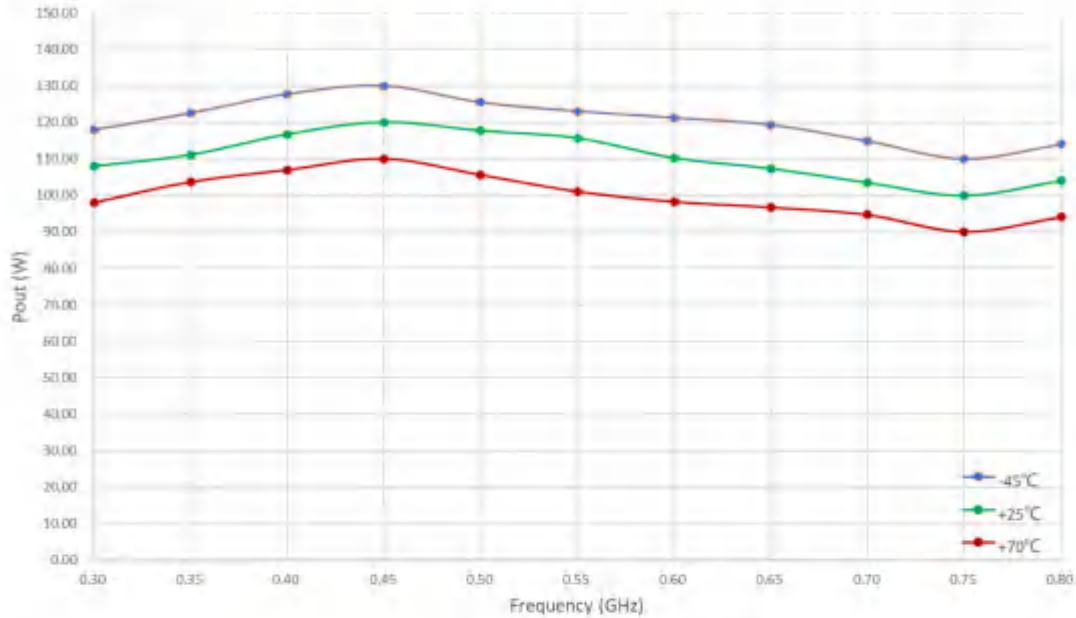


Figure 1: RFP-0030-0080-50 Psat

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.

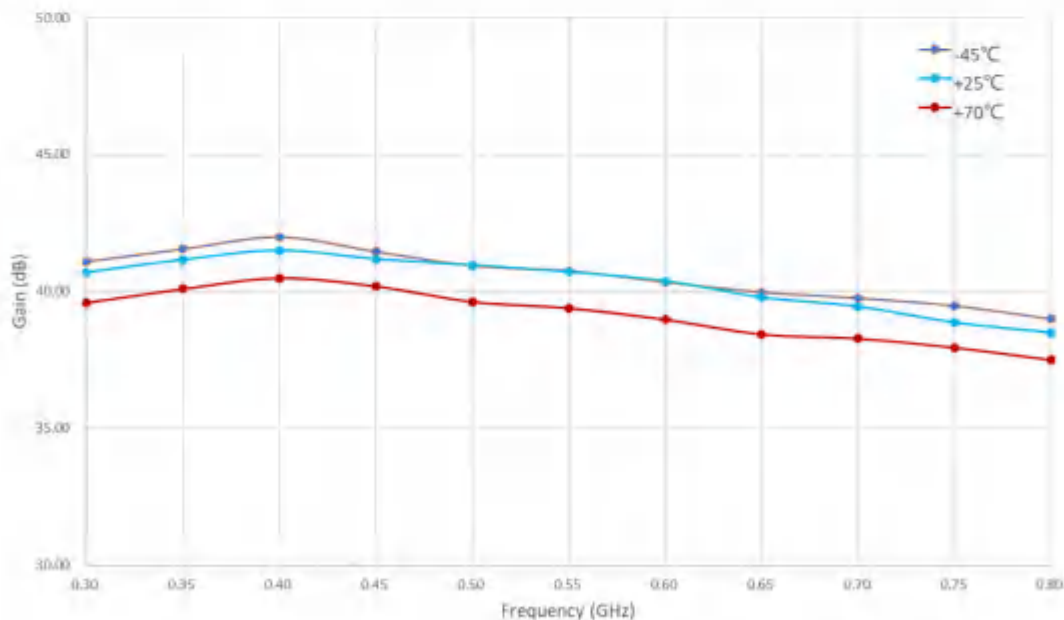


Figure 2: RFP-0030-0080-50 Small Signal Gain Vs Temperature

Input VSWR

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

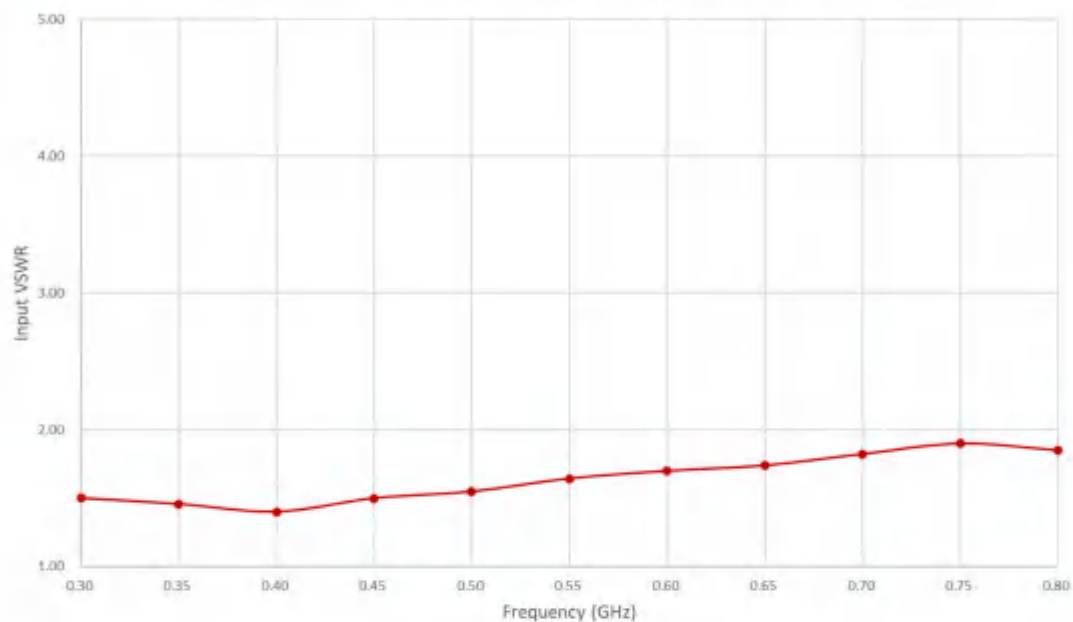


Figure 3: RFPA-0030-0080-50 Input VSWR

P.A.E

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

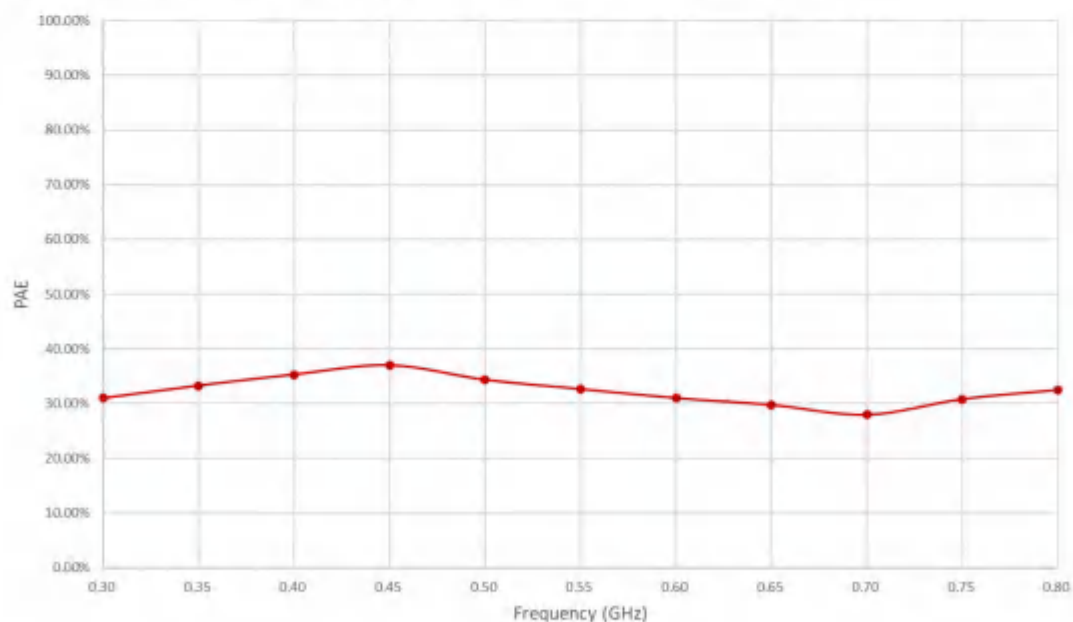


Figure 4: RFPA-0030-0080-50 P.A.E

Absolute Maximum Ratings

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

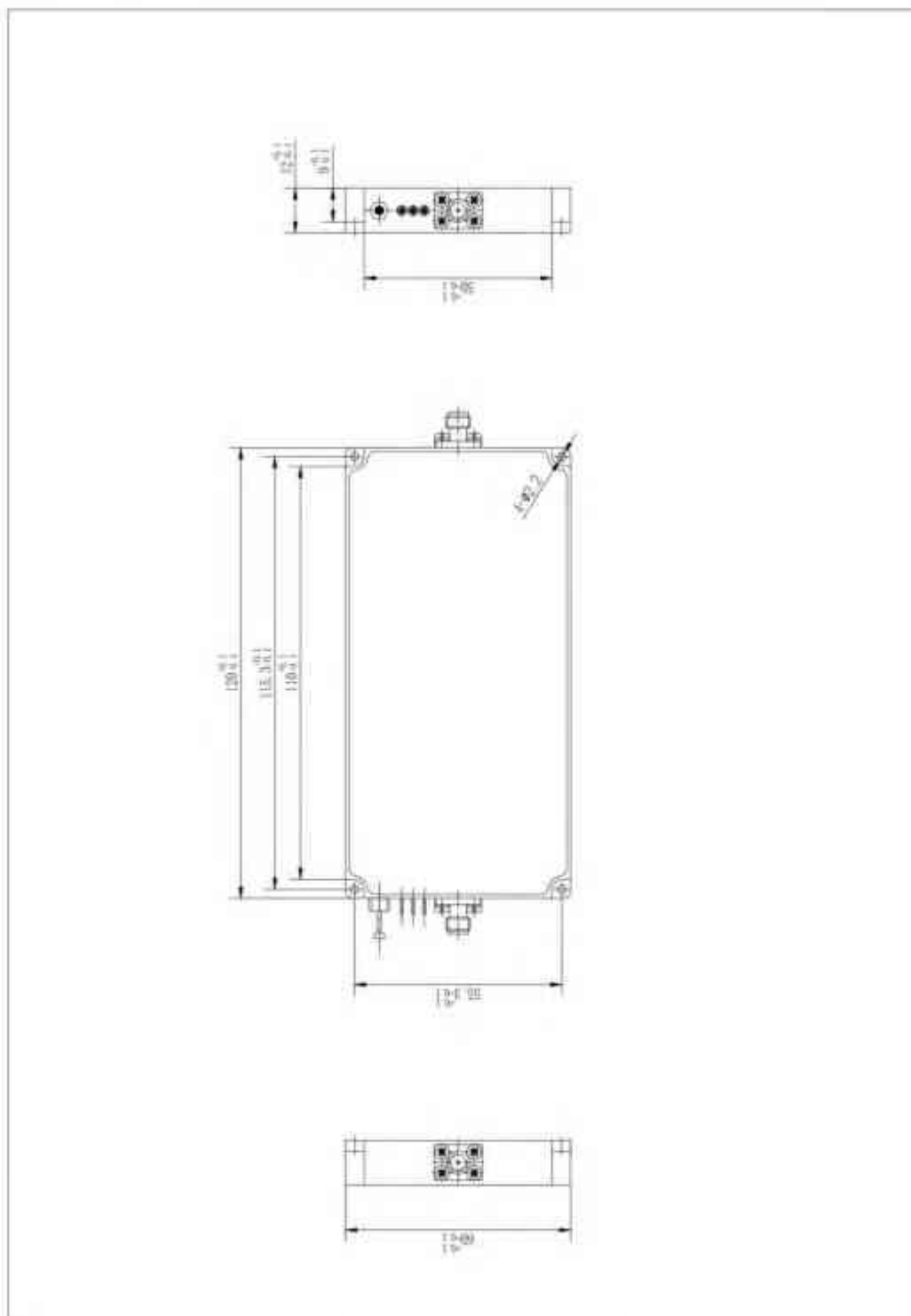
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

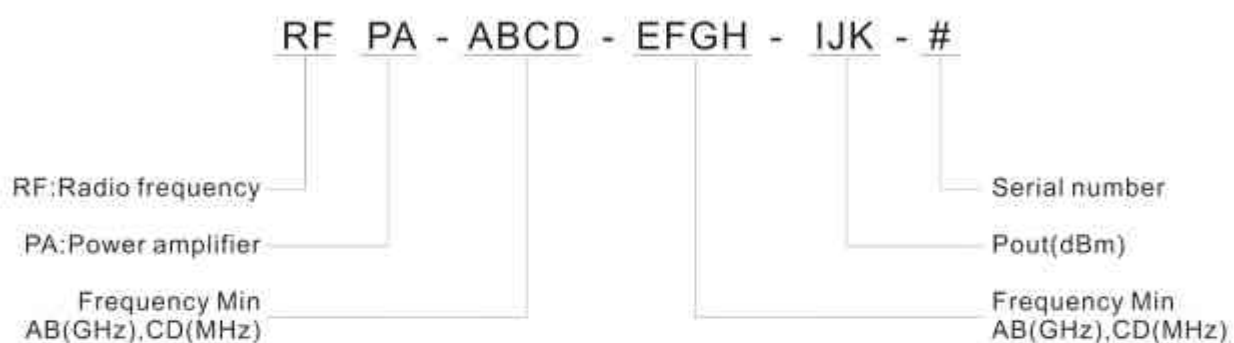


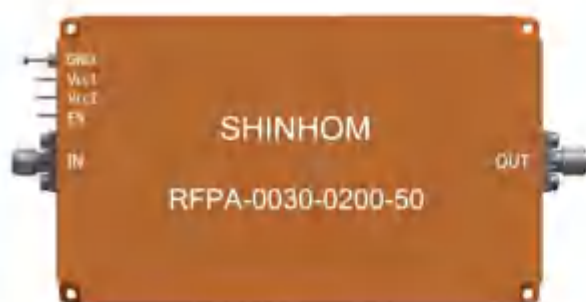


Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.3 to 2.0 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0030-0200-50

The RFP-0030-0200-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	0.3	–	2.0	GHz
Output Power		50		dBm
Small Signal Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

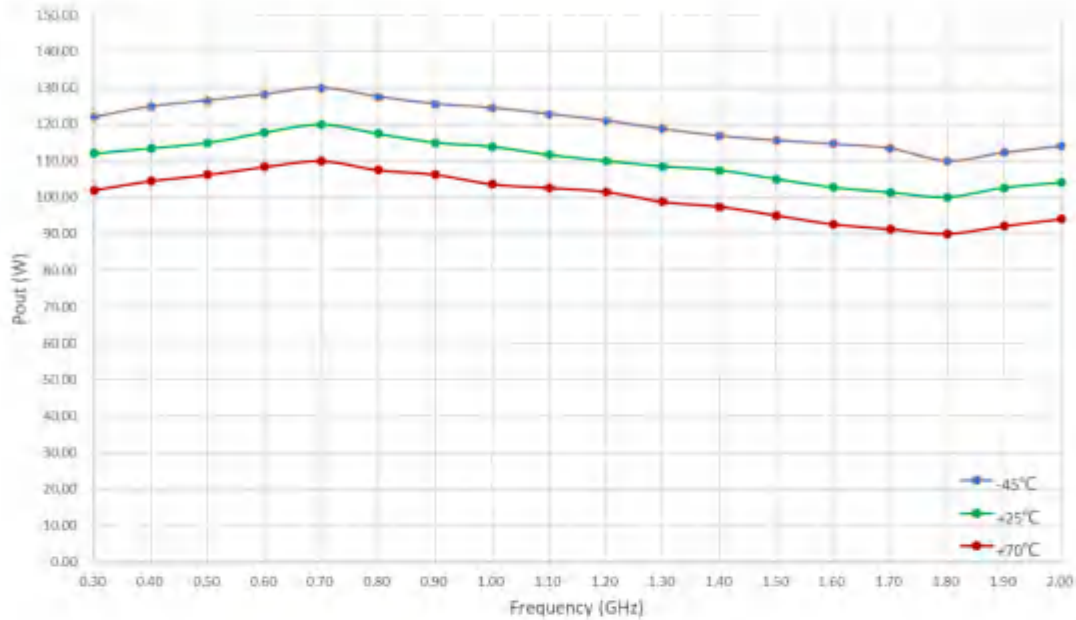


Figure 1: RFPA-0030-0200-50 Psat

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.

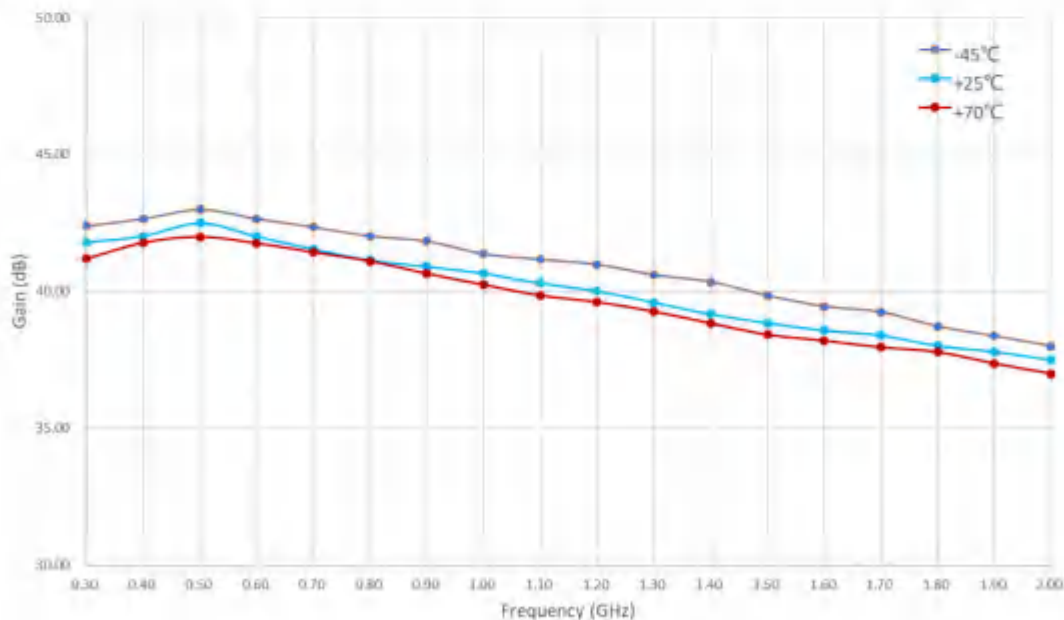


Figure 2: RFPA-0030-0200-50 Small Signal Gain Vs Temperature

Input VSWR

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

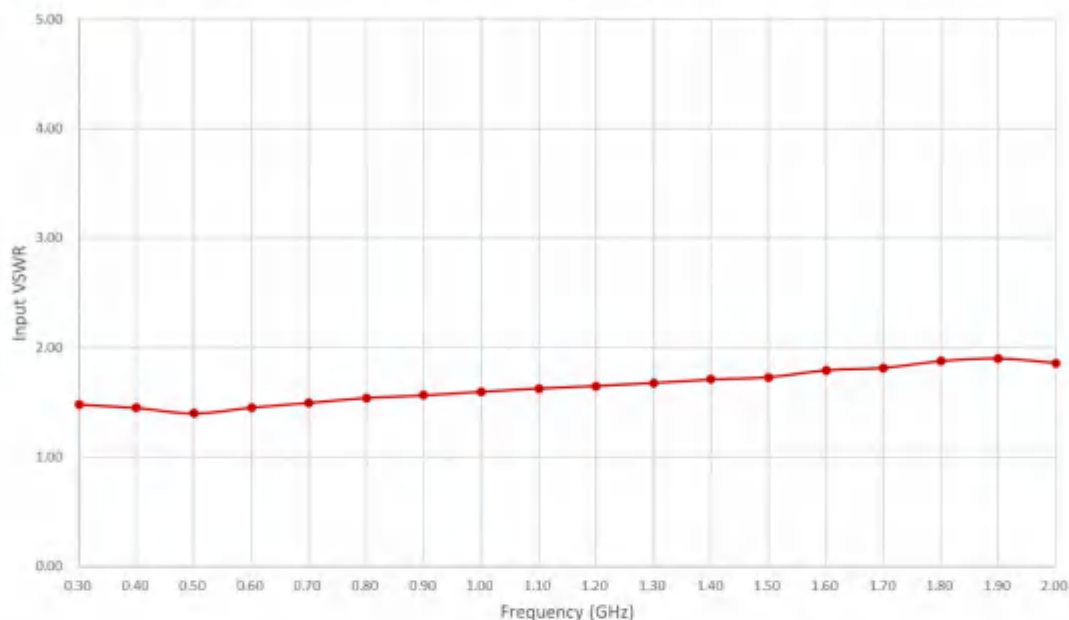


Figure 3: RFP-0030-0200-50 Input VSWR

P.A.E

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

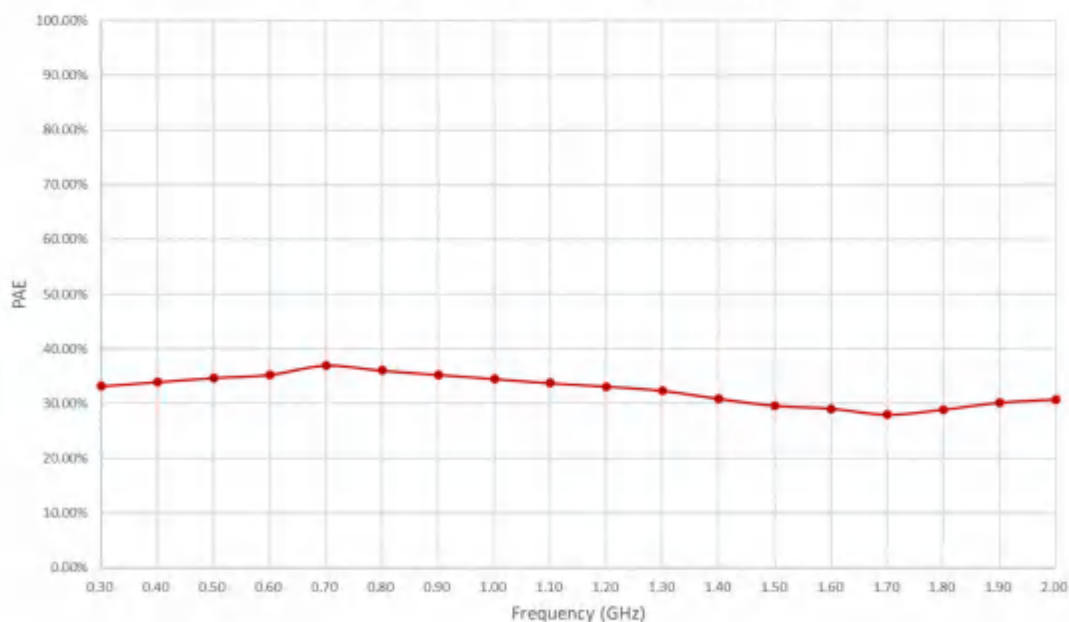


Figure 4: RFP-0030-0200-50 P.A.E

Absolute Maximum Ratings

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

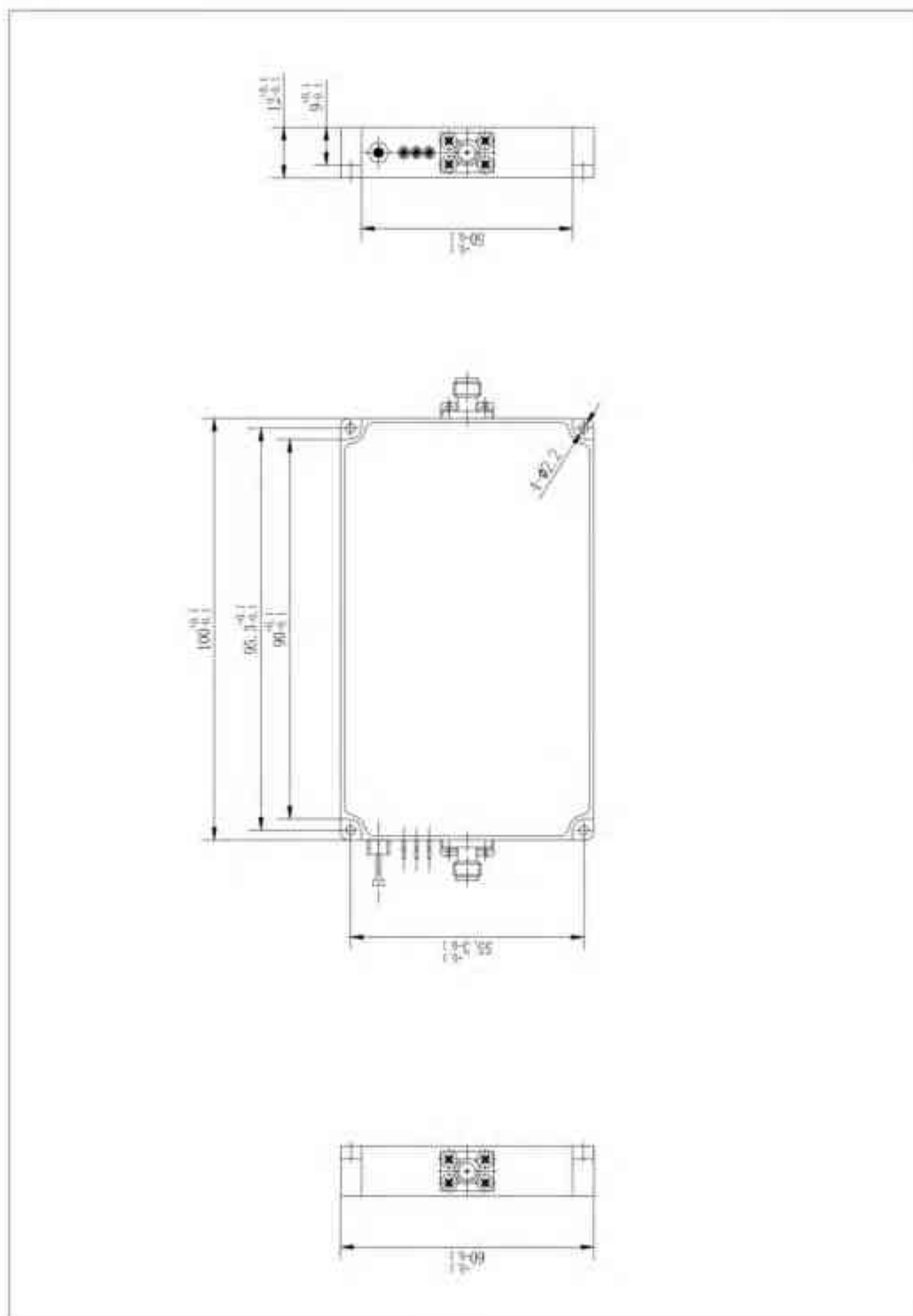
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

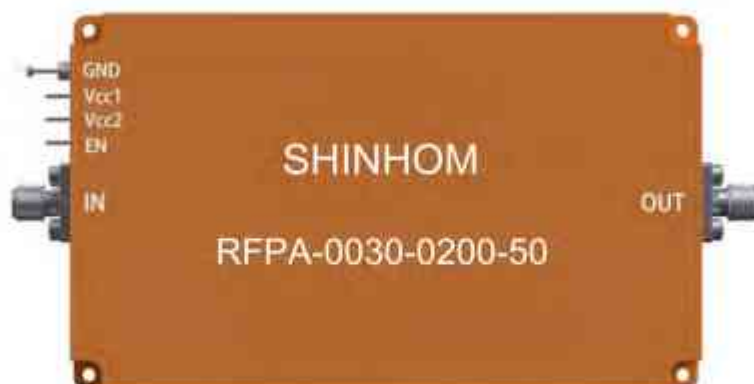
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

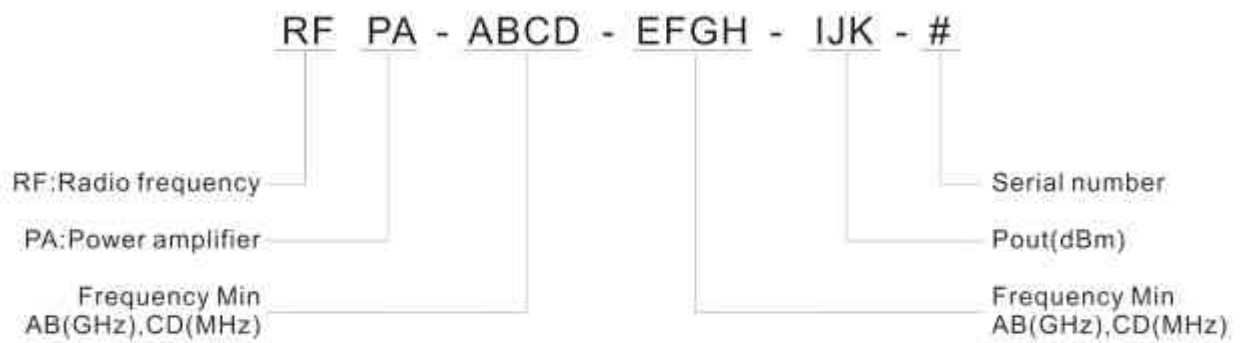




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.35 to 2.0 GHz.
- Typical values: Pout 40 dBm, Gain 42 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0035-0200-40

The RFP-0035-0200-40 is a High Power Amplifier providing an output power of 40 dBm and a gain of 42 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	Typ	Max	
Frequency	0.35	-	2.0	GHz
Output Power		40		dBm
Small Signal Gain	39.5	42	44.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

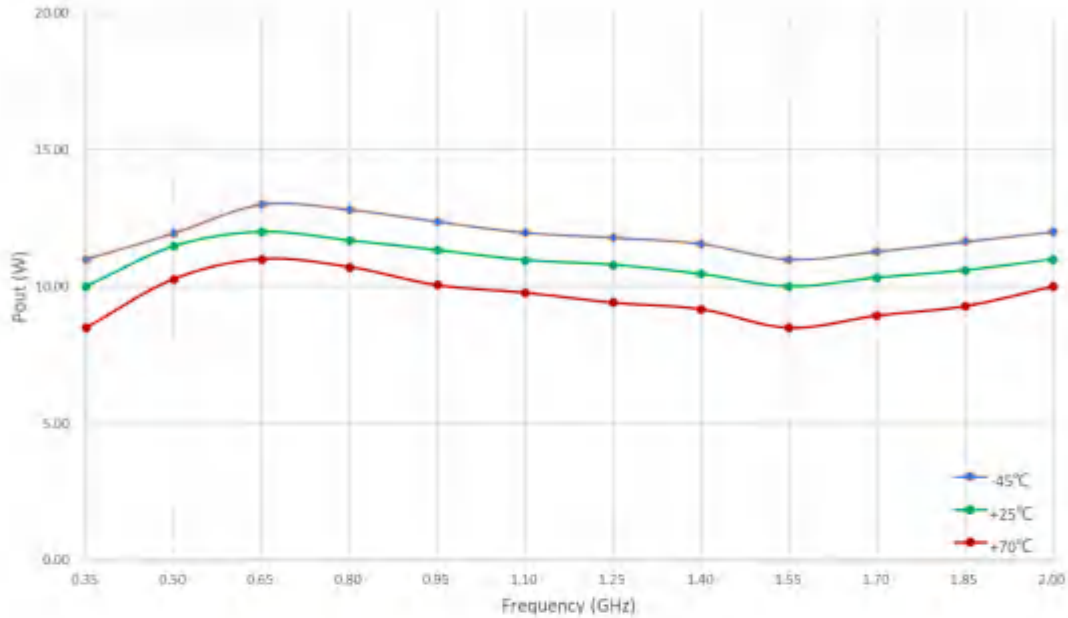


Figure 1: RFP-0035-0200-40 Psat

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.

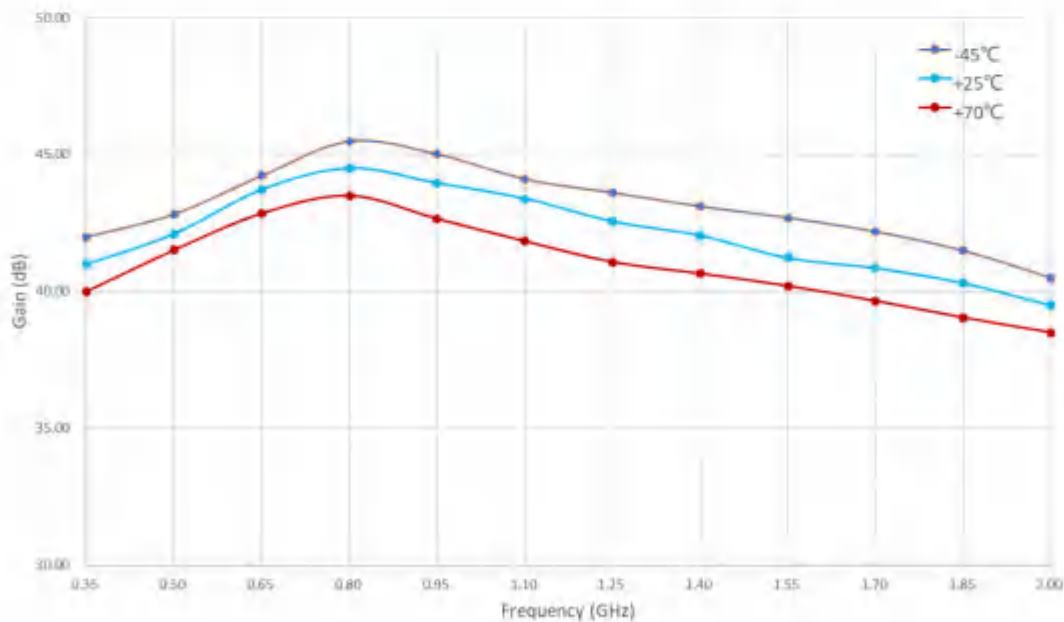


Figure 2: RFP-0035-0200-40 Small Signal Gain Vs Temperature

Input VSWR

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

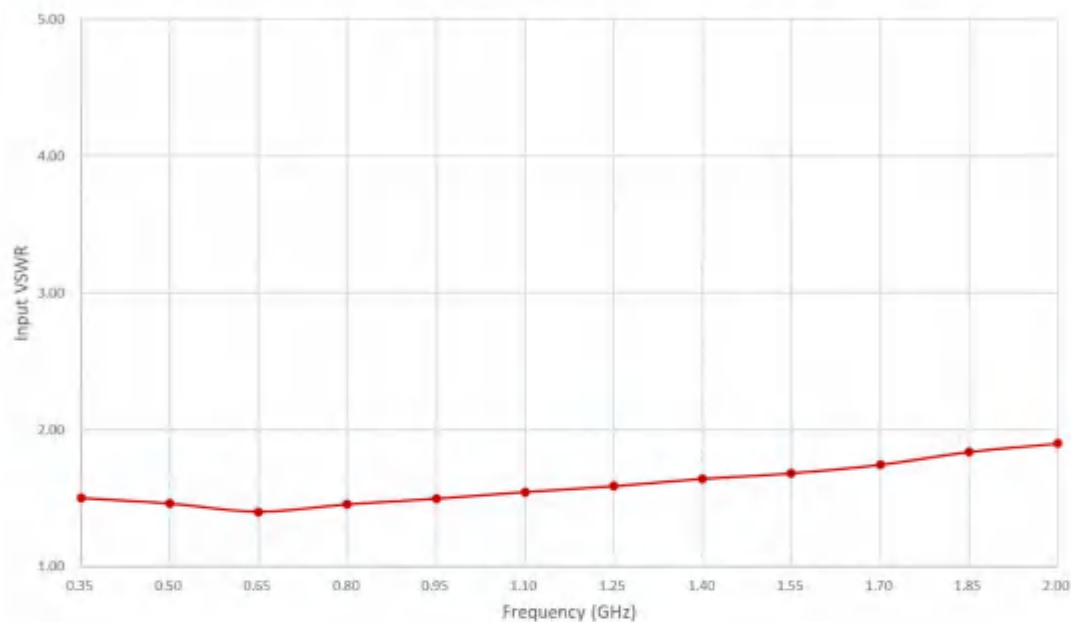


Figure 3: RFPA-0035-0200-40 Input VSWR

P.A.E

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

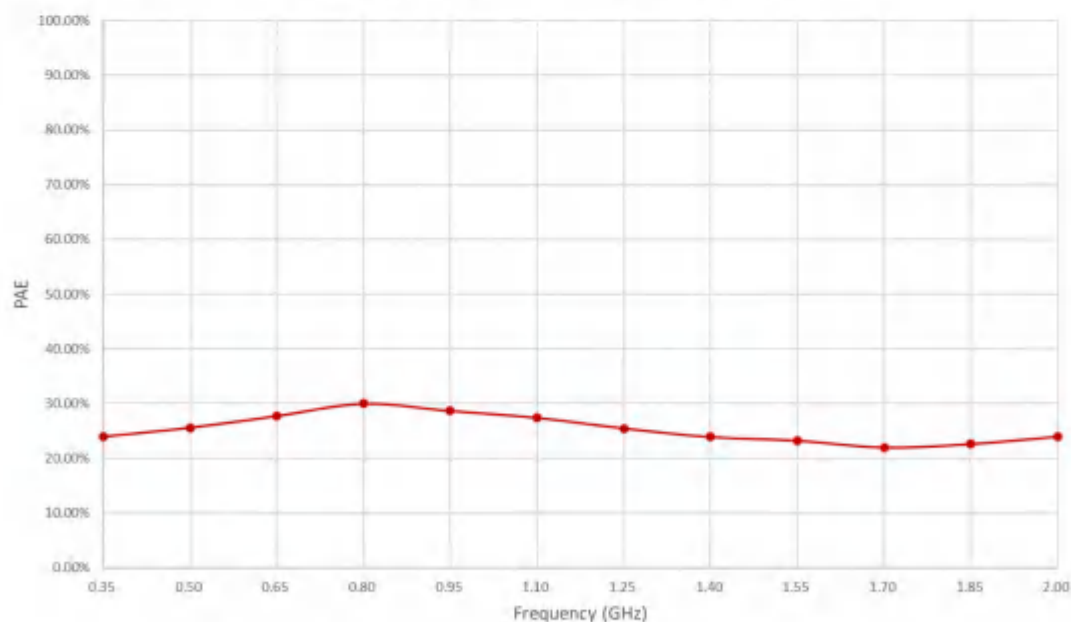


Figure 4: RFPA-0035-0200-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

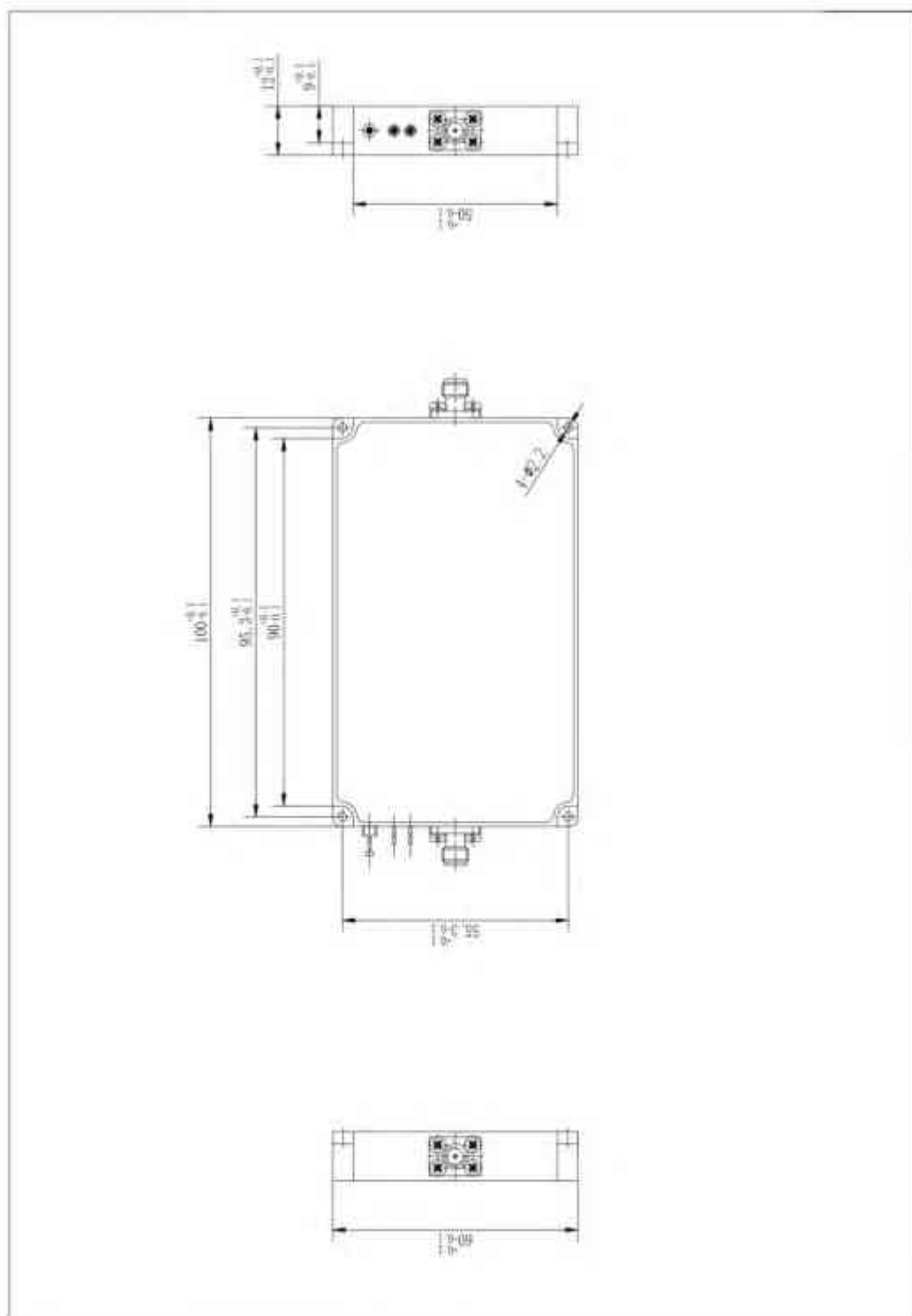
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

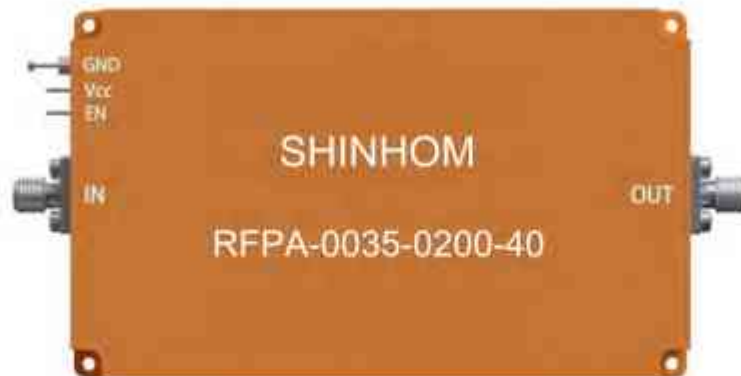
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

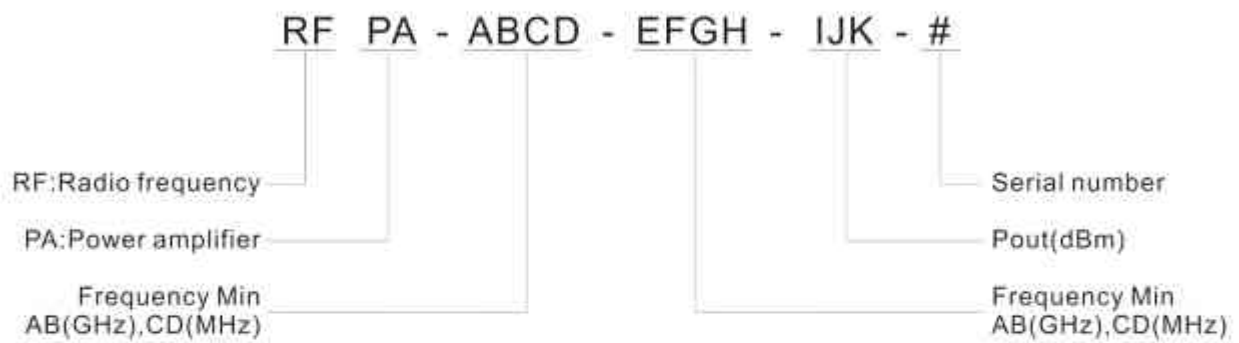




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.35 to 2.0 GHz.
- Typical values: Pout 43 dBm, Gain 44 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0035-0200-43

The RFP-0035-0200-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 44 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	Typ	Max	
Frequency	0.35	-	2.0	GHz
Output Power		43		dBm
Small Signal Gain	41.5	44	46.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

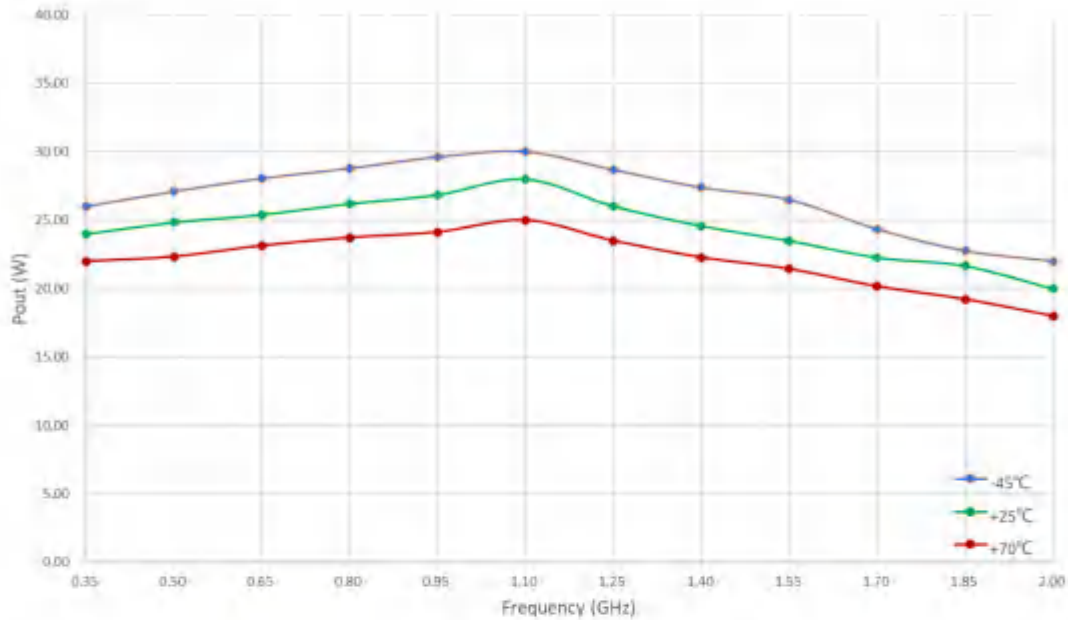


Figure 1: RFP-0035-0200-43 Psat

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.

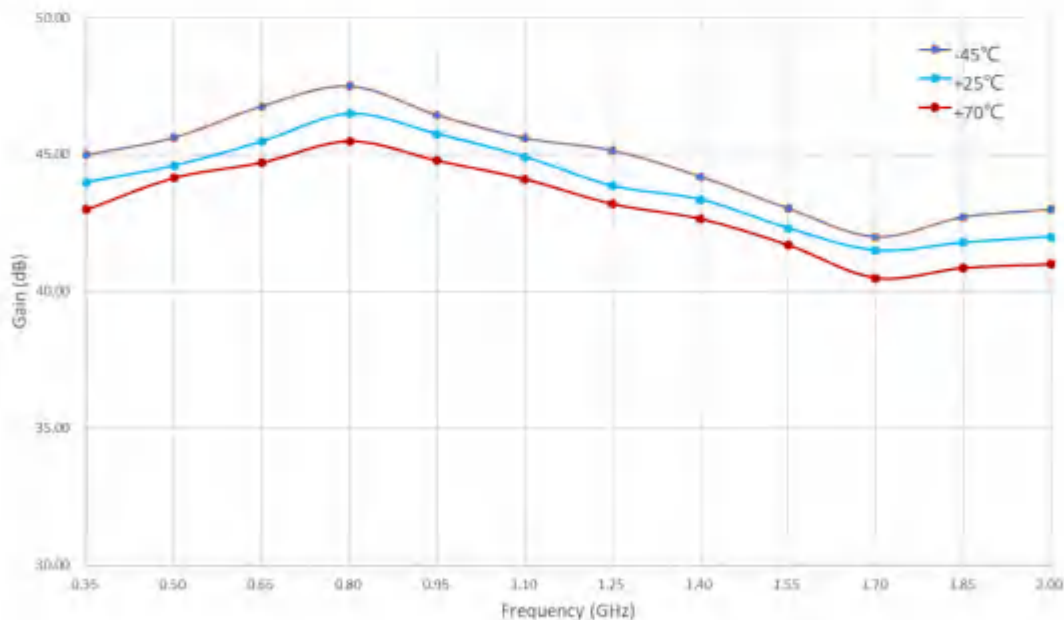


Figure 2: RFP-0035-0200-43 Small Signal Gain Vs Temperature

Input VSWR

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

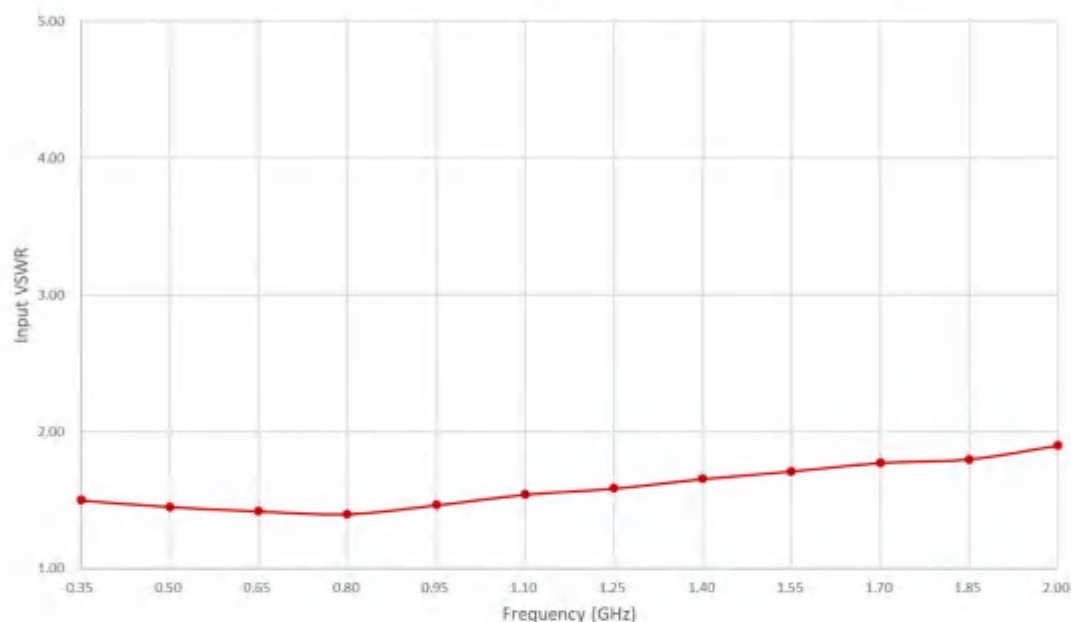


Figure 3: RFPA-0035-0200-43 Input VSWR

P.A.E

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

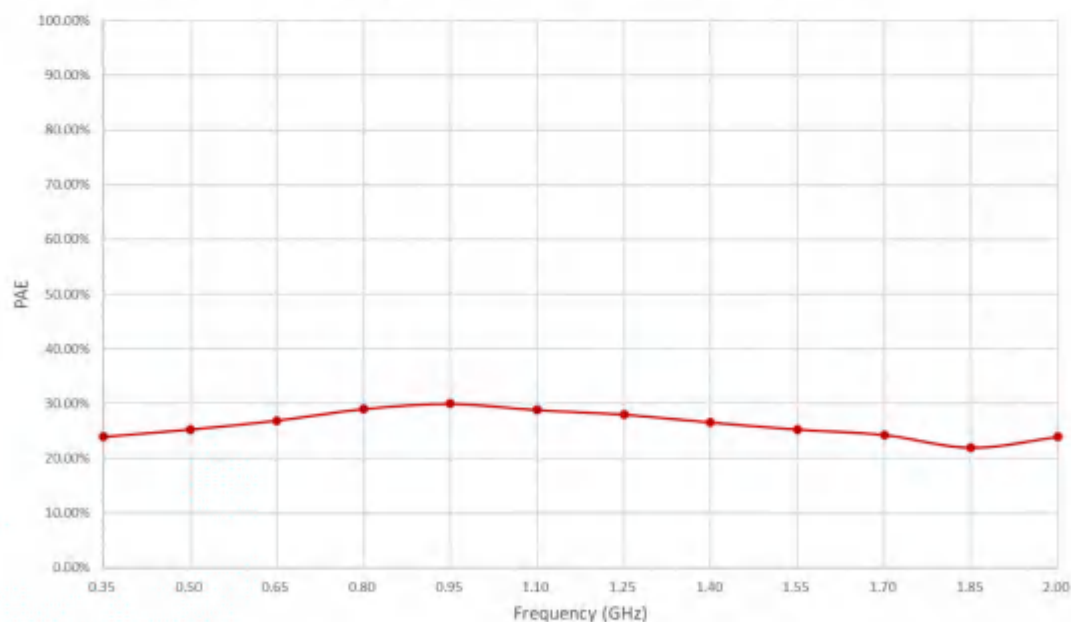


Figure 4: RFPA-0035-0200-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

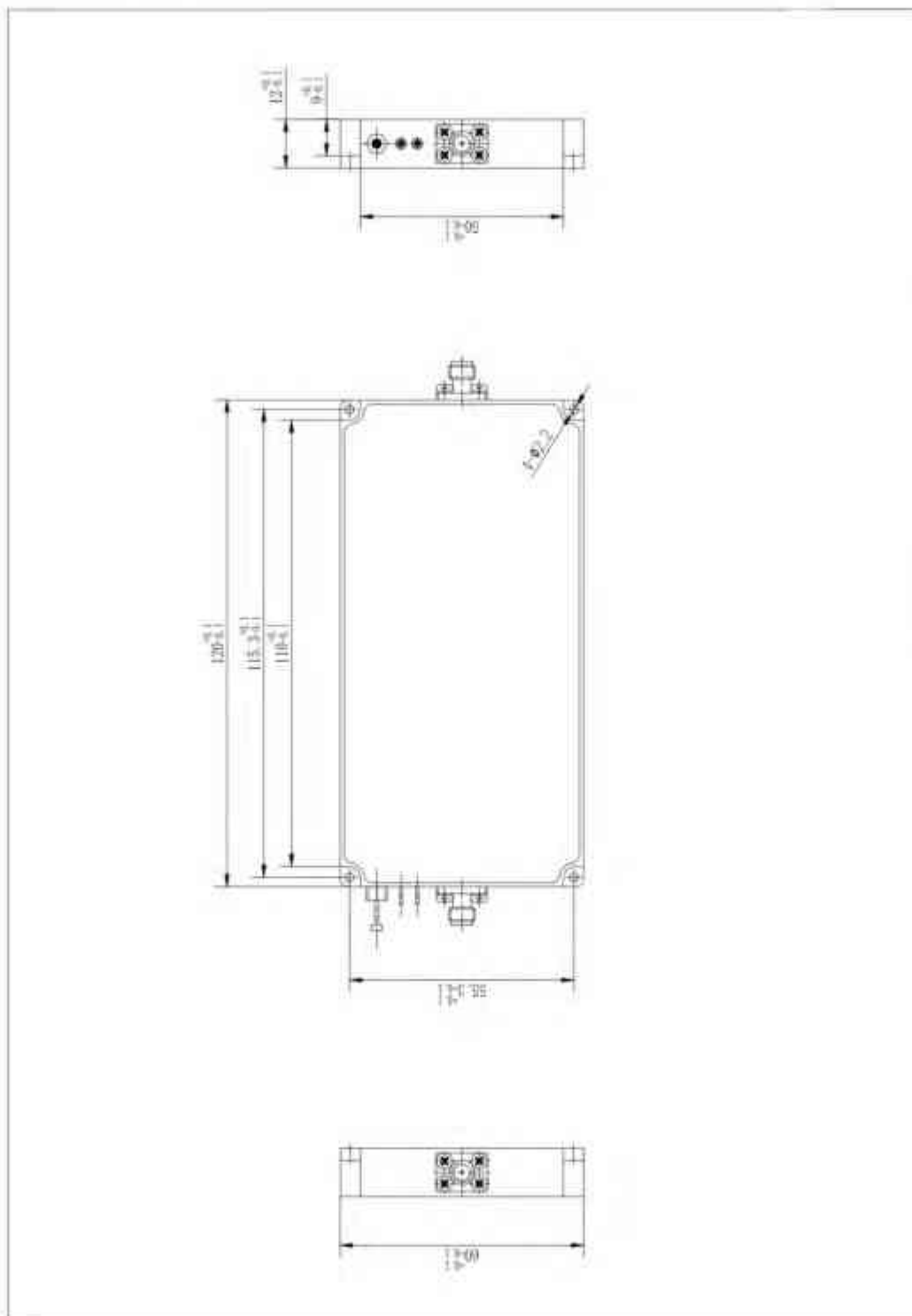
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

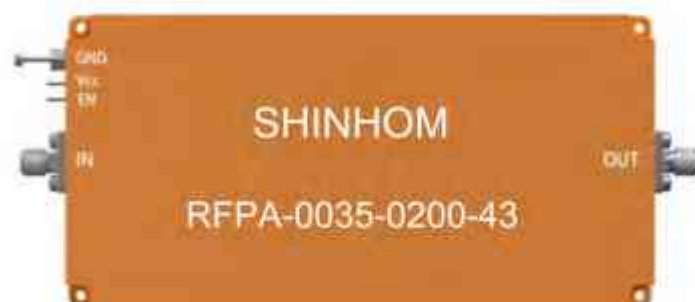
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

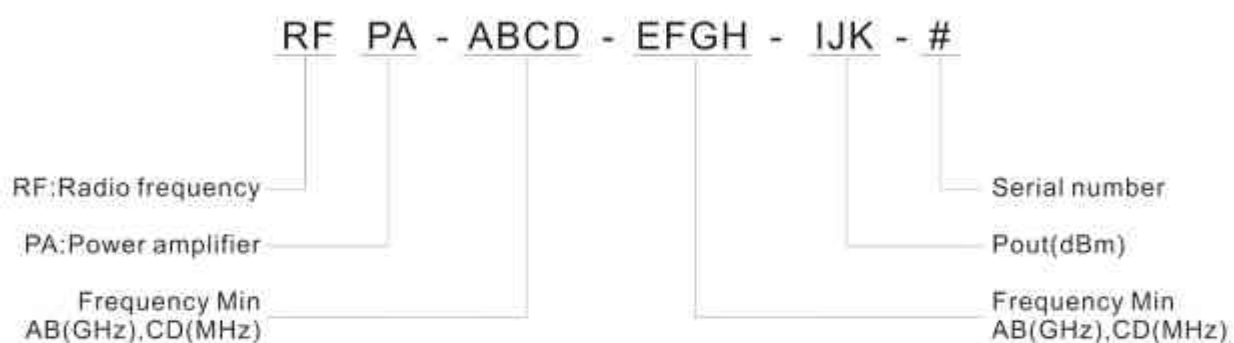




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.35 to 2.0 GHz.
- Typical values: Pout 47 dBm, Gain 38 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0035-0200-47

The RFP-0035-0200-47 is a High Power Amplifier providing an output power of 47 dBm and a gain of 38 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	Typ	Max	
Frequency	0.35	-	2.0	GHz
Output Power		47		dBm
Small Signal Gain	35.5	38	40.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

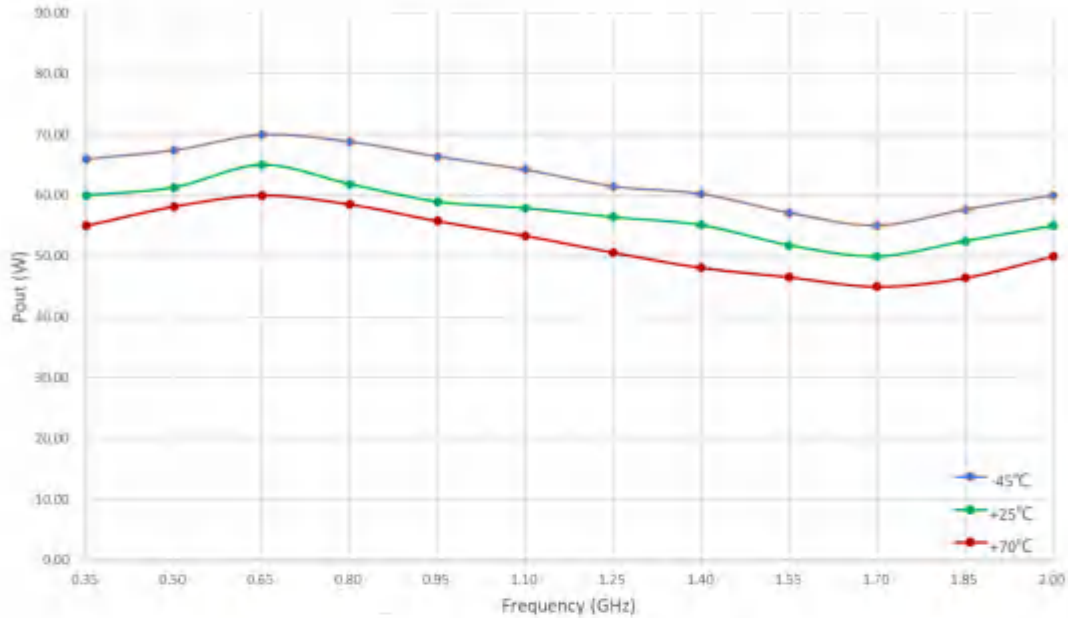


Figure 1: RFP-0035-0200-47 Psat

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.

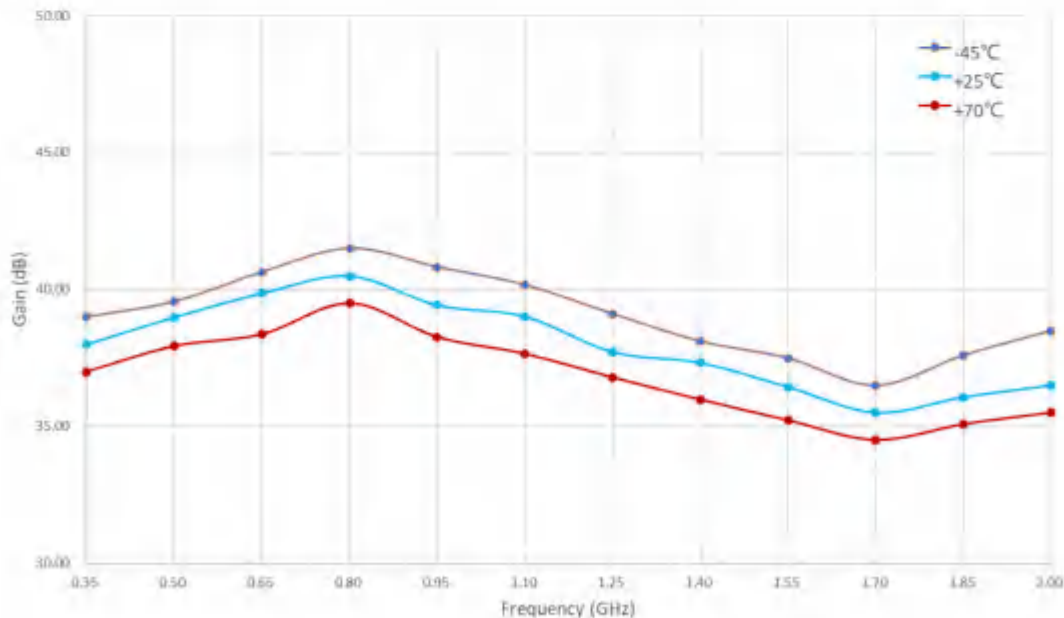


Figure 2: RFP-0035-0200-47 Small Signal Gain Vs Temperature

Input VSWR

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

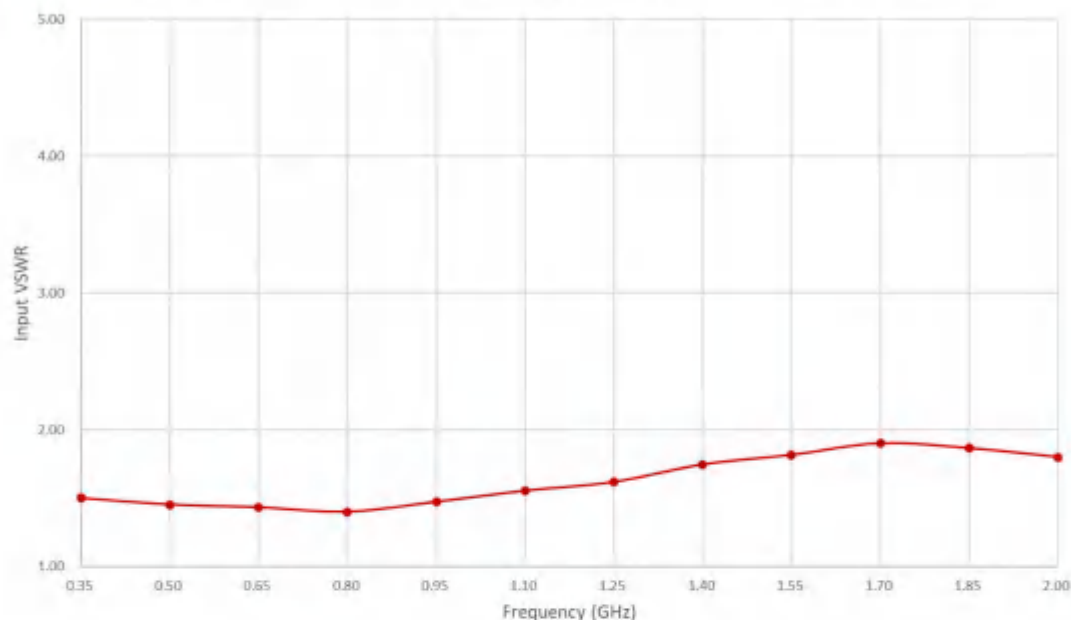


Figure 3: RFPA-0035-0200-47 Input VSWR

P.A.E

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

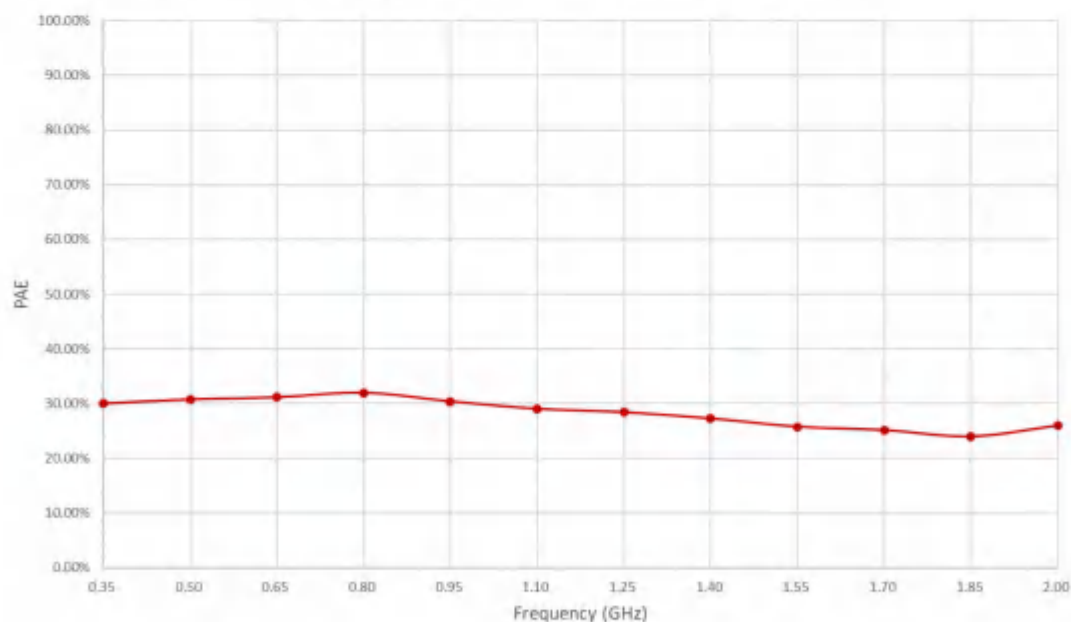


Figure 4: RFPA-0035-0200-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

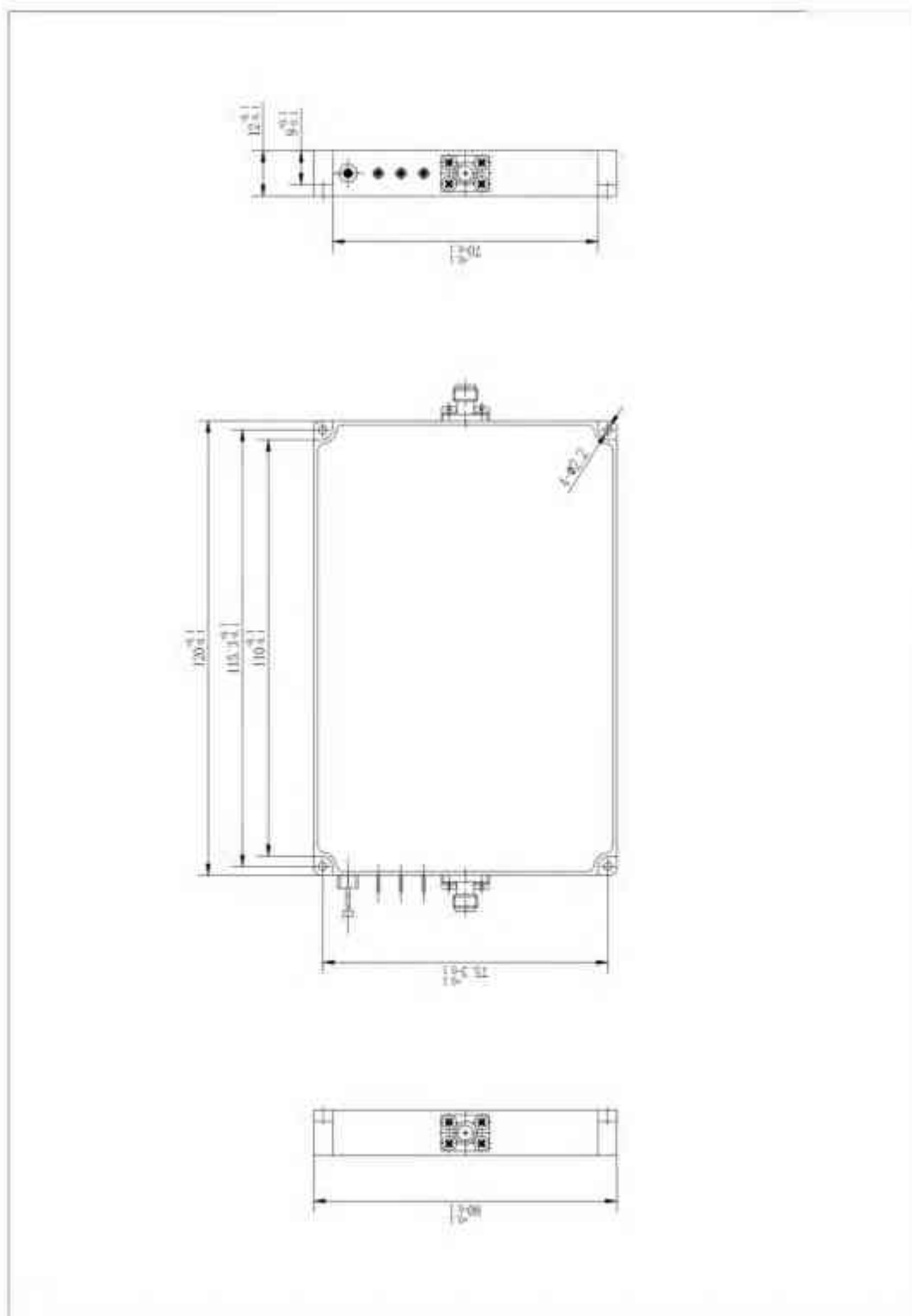
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

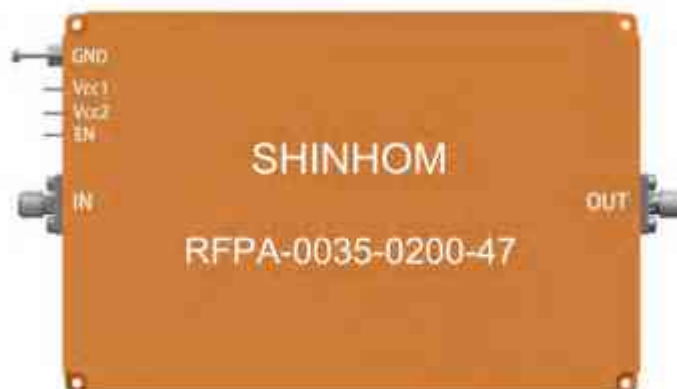
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

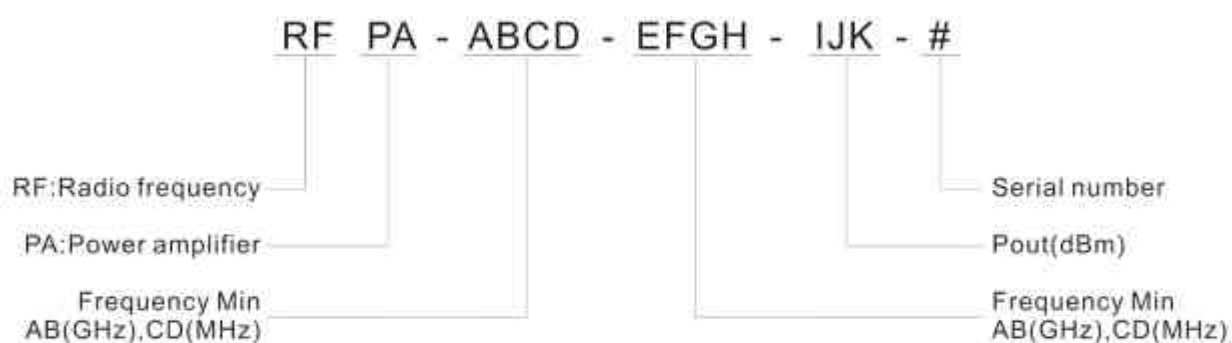




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.7 to 6.0 GHz.
- Typical values: Pout 44 dBm, Gain 40 dB
- Power Added Efficiency: 18%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0070-0600-44

The RFP-0070-0600-44 is a High Power Amplifier providing an output power of 44 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	Typ	Max	
Frequency	0.7	-	6.0	GHz
Output Power		44		dBm
Small Signal Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

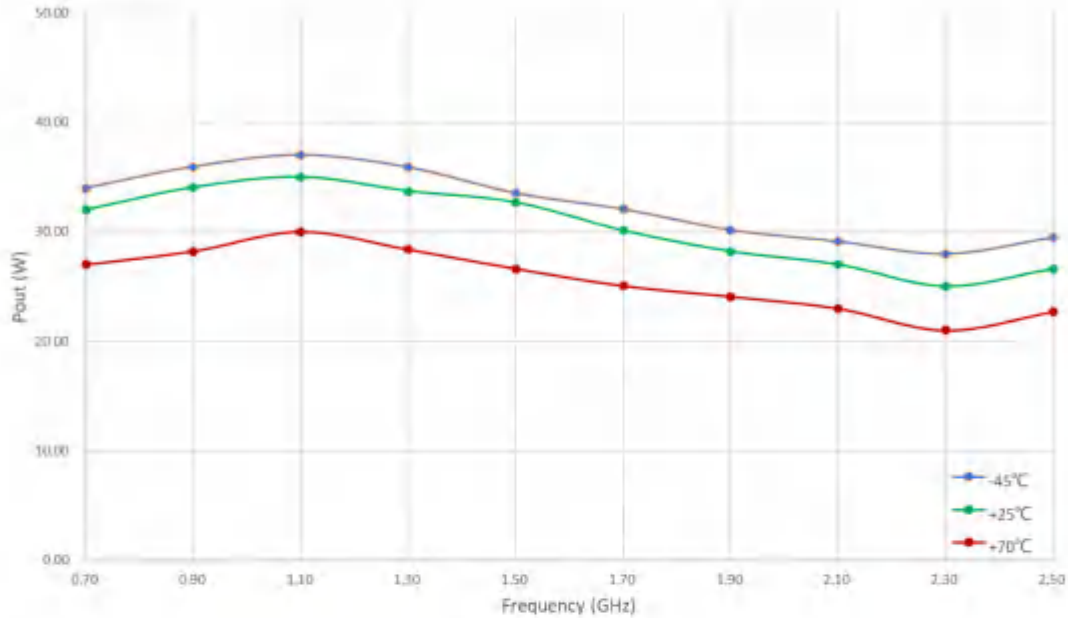


Figure 1: RFP-0070-0600-44 Psat

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.

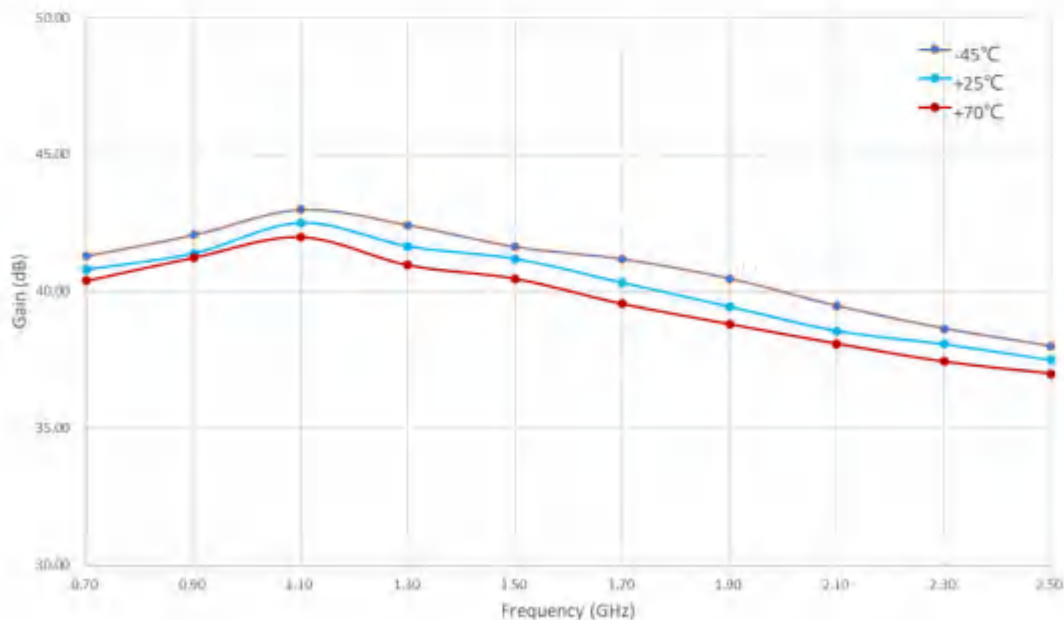


Figure 2: RFP-0070-0600-44 Small Signal Gain Vs Temperature

Input VSWR

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

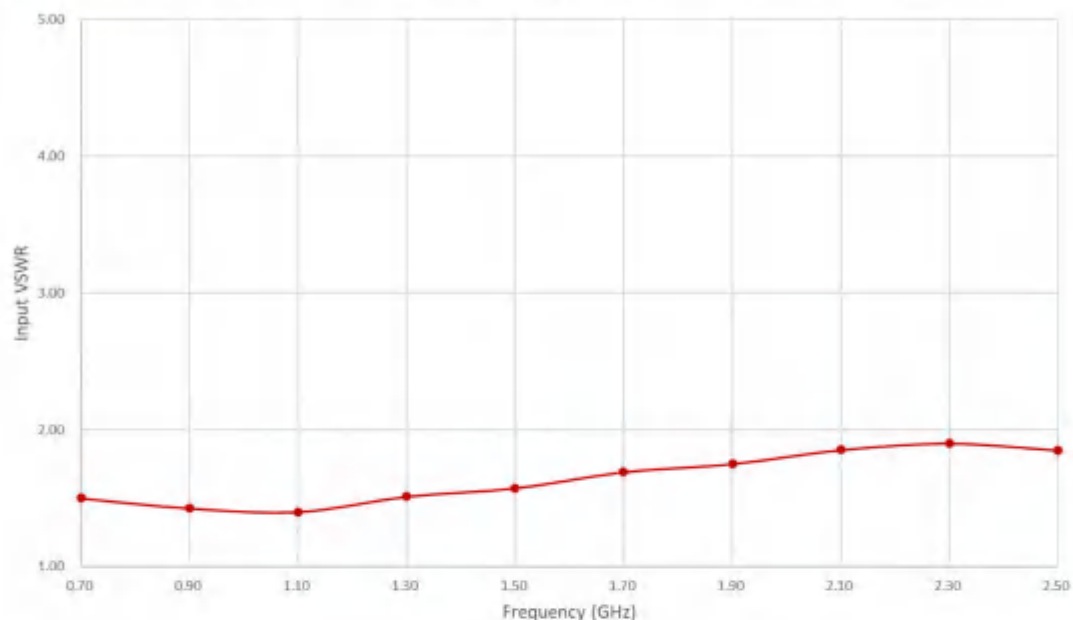


Figure 3: RFPA-0070-0600-44 Input VSWR

P.A.E

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

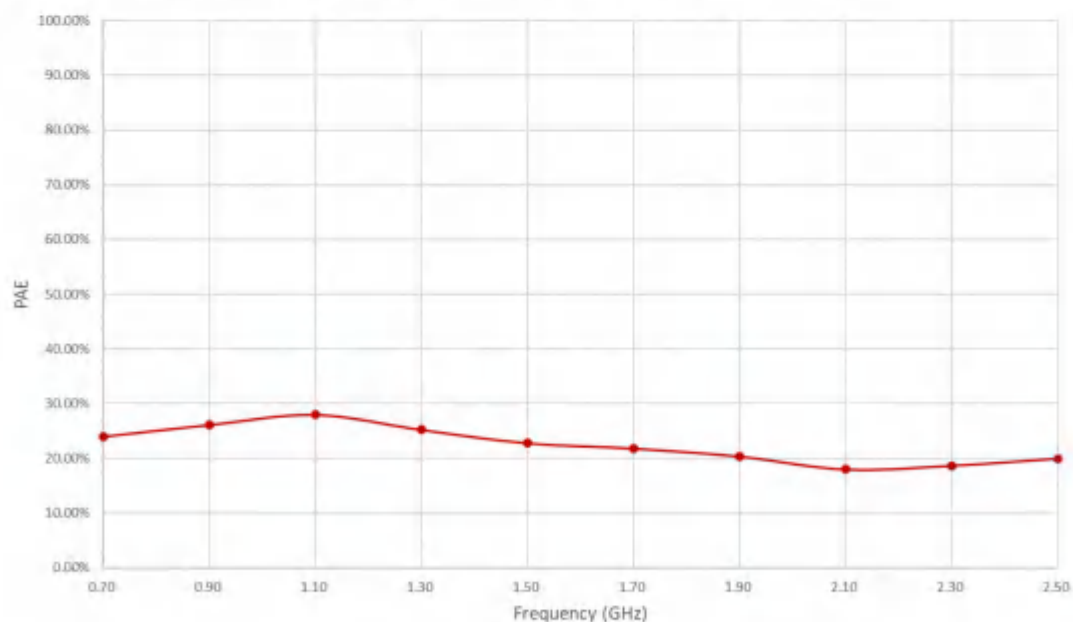


Figure 4: RFPA-0070-0600-44 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

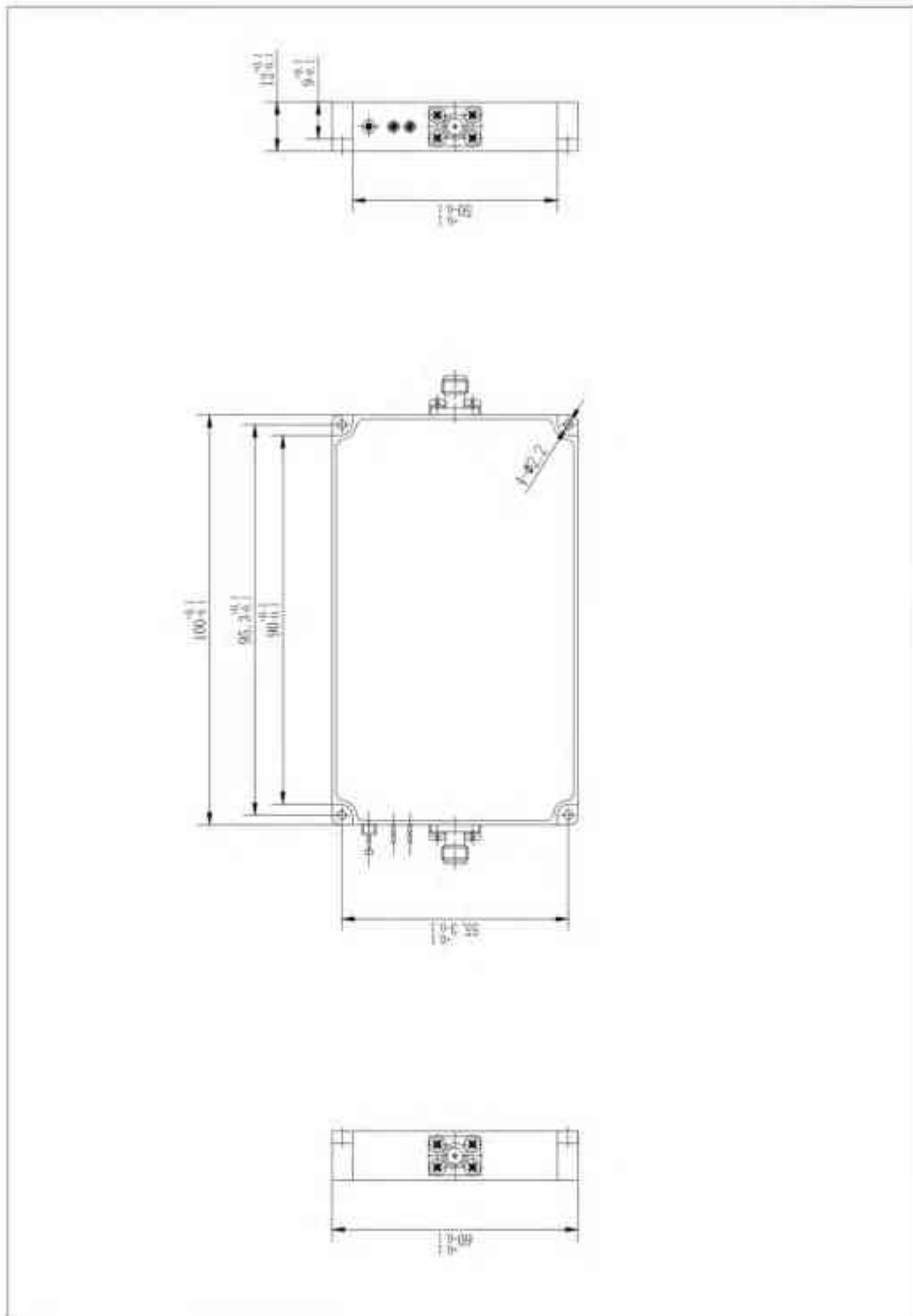
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

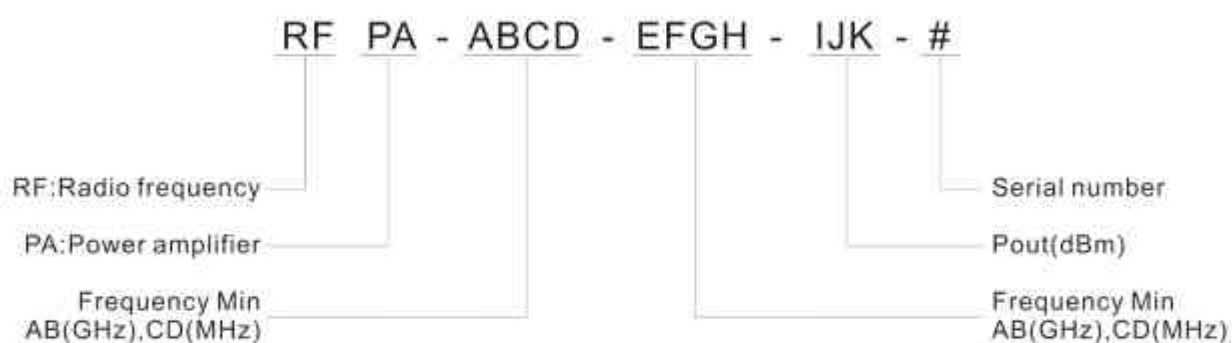




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 2.0 GHz.
- Typical values: Pout 40 dBm, Gain 42 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0080-0200-40

The RFPA-0080-0200-40 is a High Power Amplifier providing an output power of 40 dBm and a gain of 42 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	Typ	Max	
Frequency	0.8	-	2.0	GHz
Output Power		40		dBm
Small Signal Gain	40.5	42	43.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

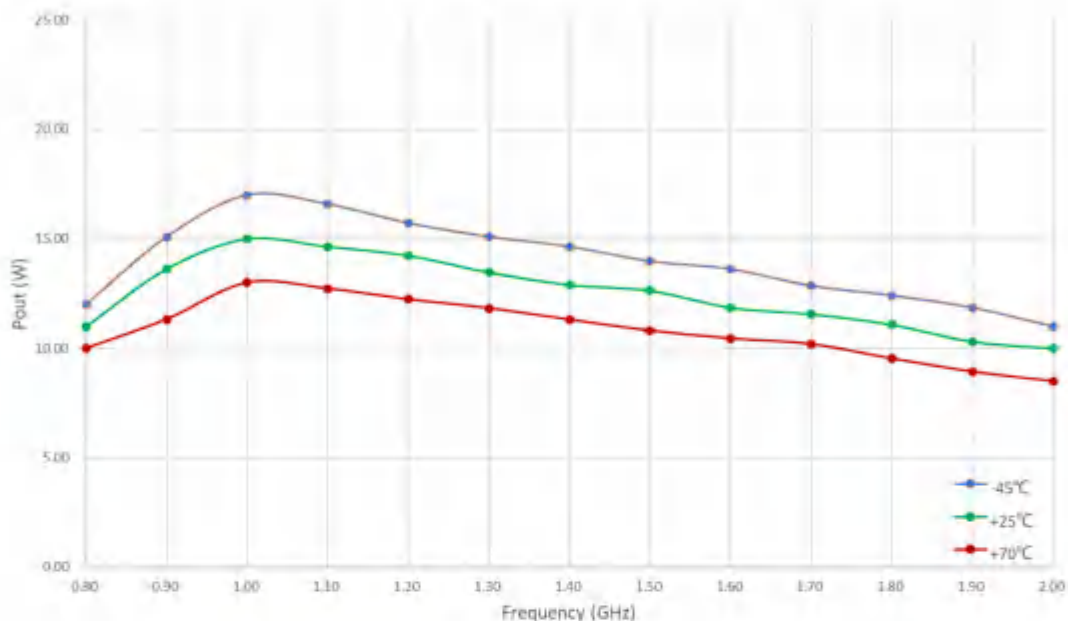


Figure 1: RFP-0080-0200-40 Psat

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.

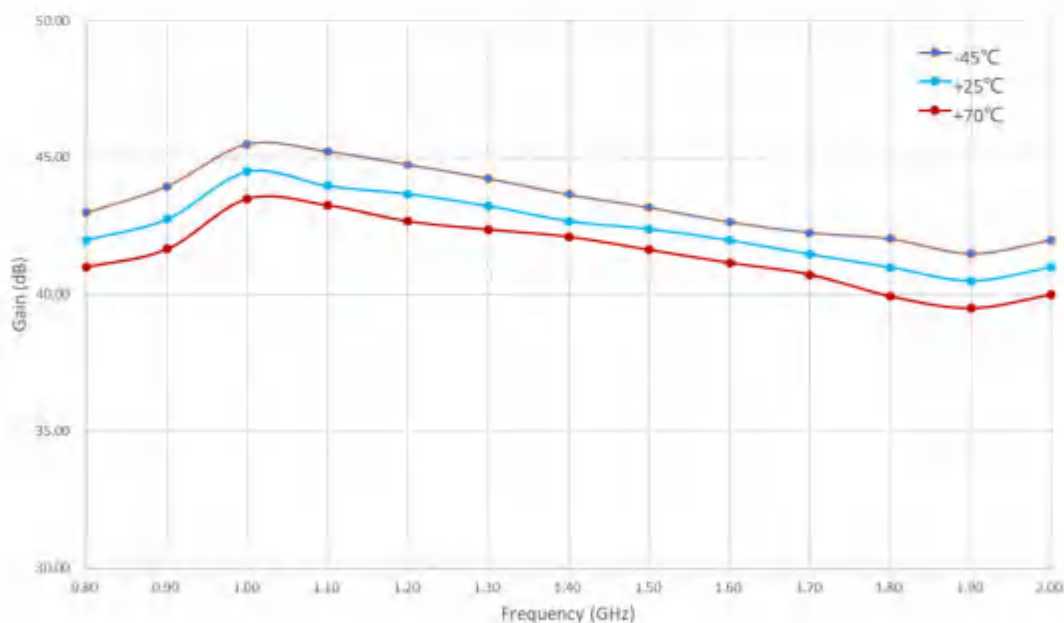


Figure 2: RFP-0080-0200-40 Small Signal Gain Vs Temperature

Input VSWR

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

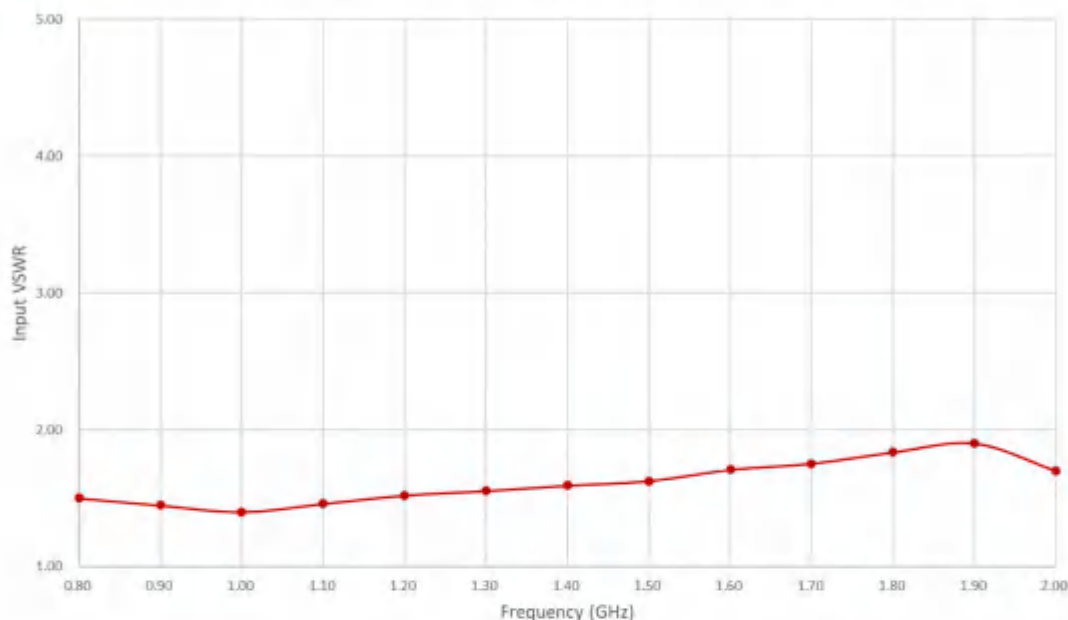


Figure 3: RFP-0080-0200-40 Input VSWR

P.A.E

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

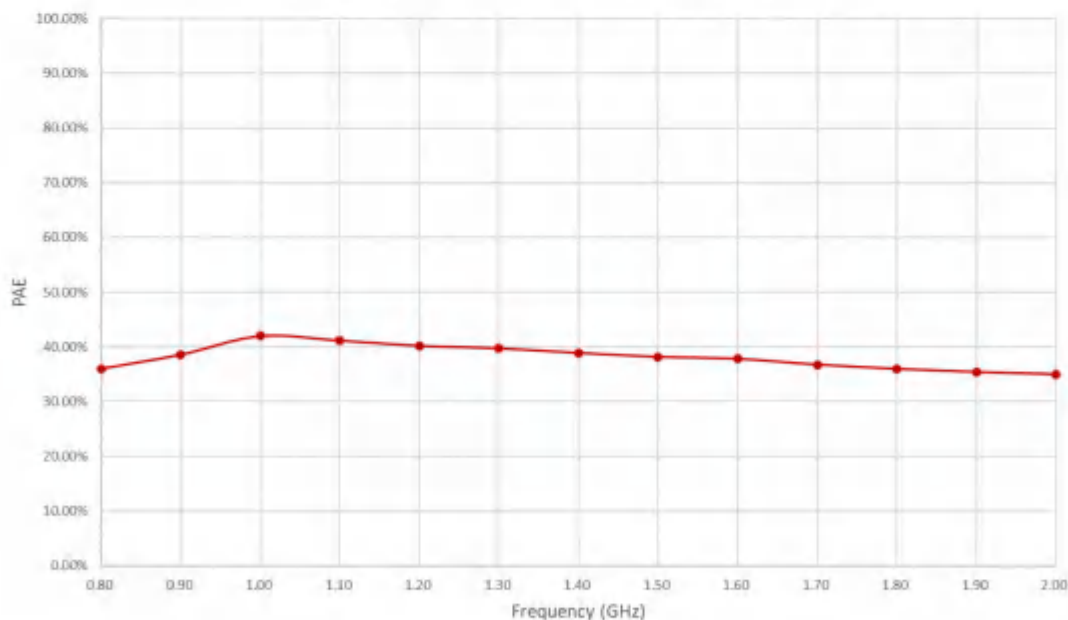


Figure 4: RFP-0080-0200-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

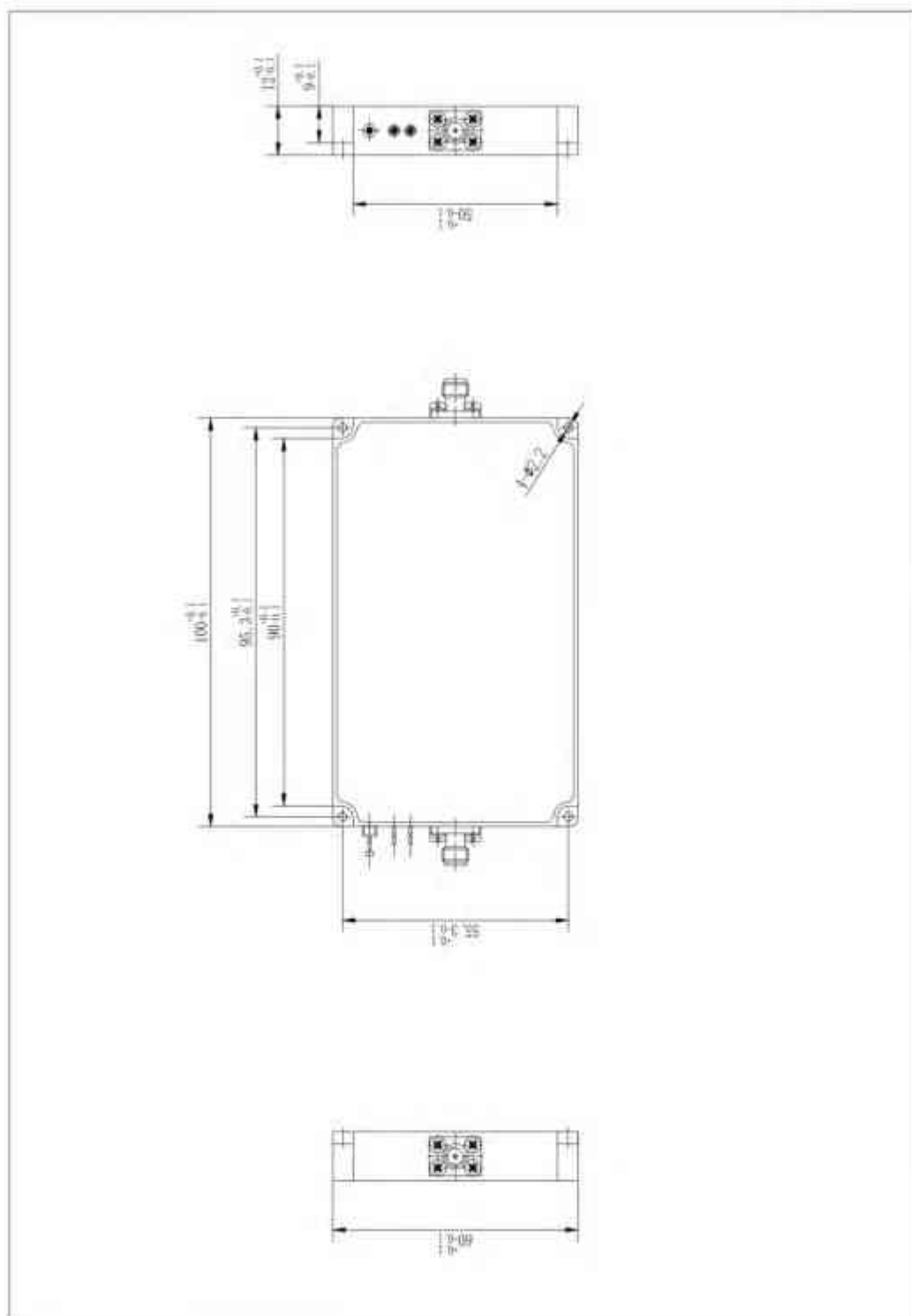
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

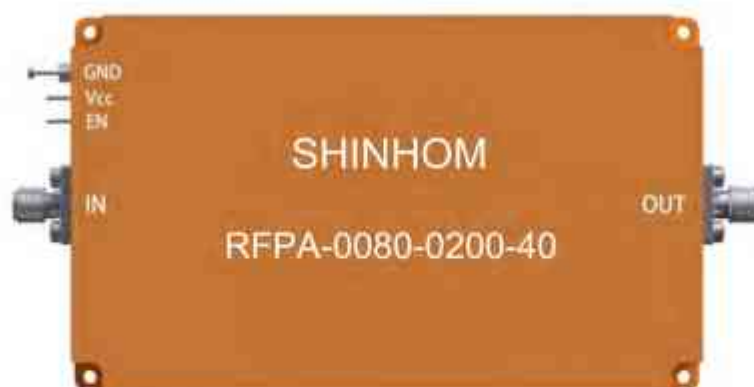
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

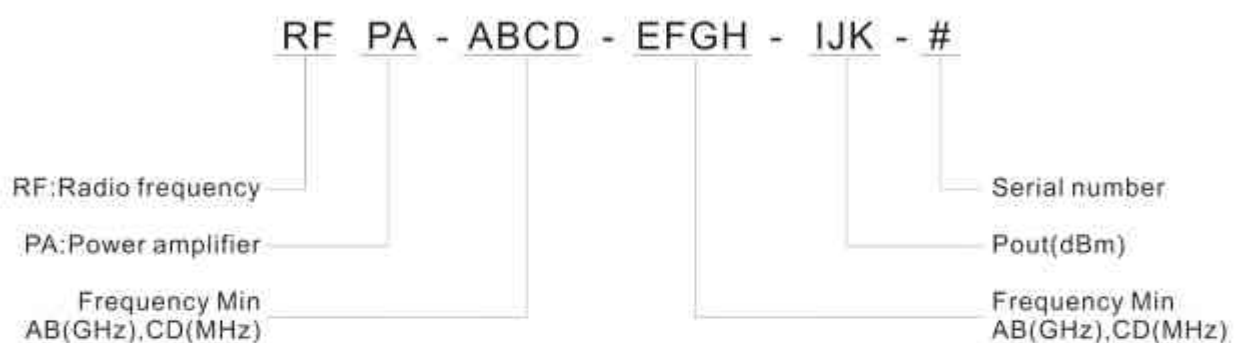




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 2.0 GHz.
- Typical values: Pout 43 dBm, Gain 38 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0200-43

The RFP-0080-0200-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 38 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	Typ	Max	
Frequency	0.8	-	2.0	GHz
Output Power		43		dBm
Small Signal Gain	36.5	38	39.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

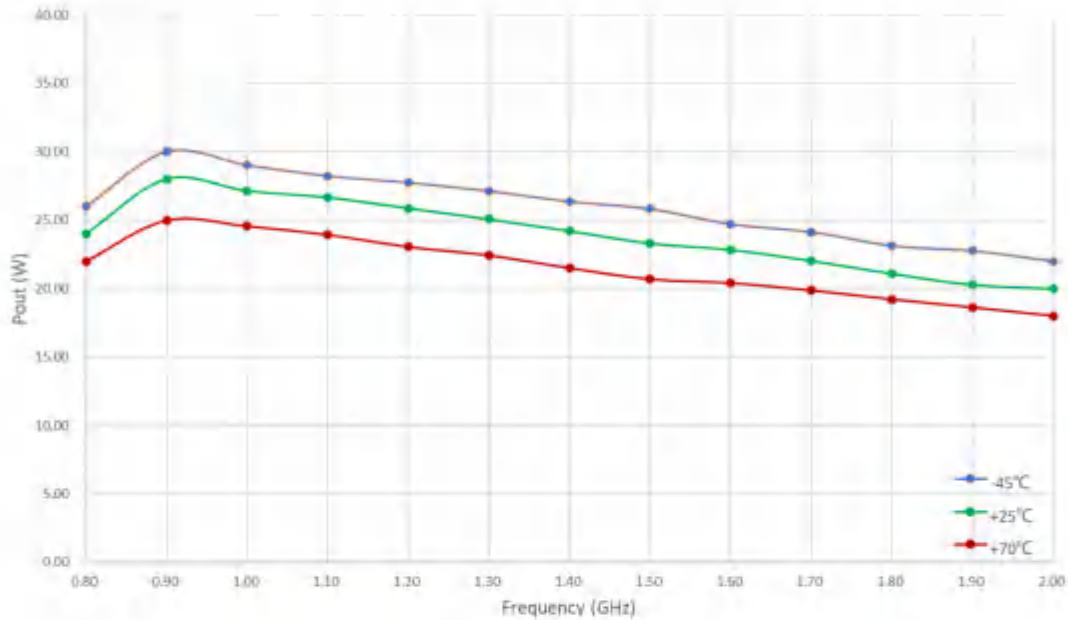


Figure 1: RFP-0080-0200-43 Psat

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.

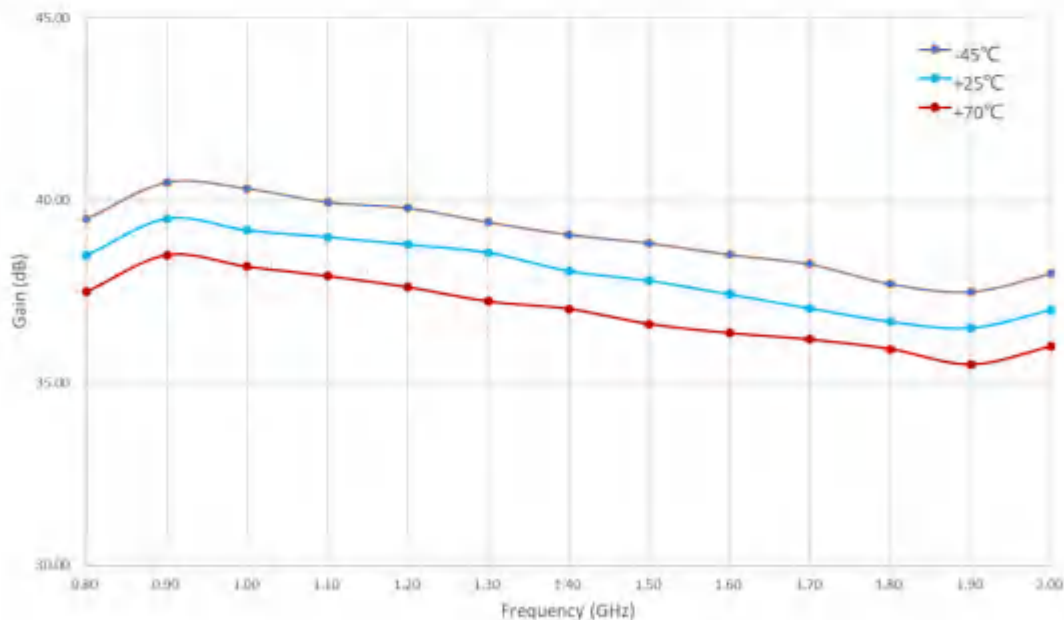


Figure 2: RFP-0080-0200-43 Small Signal Gain Vs Temperature

Input VSWR

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

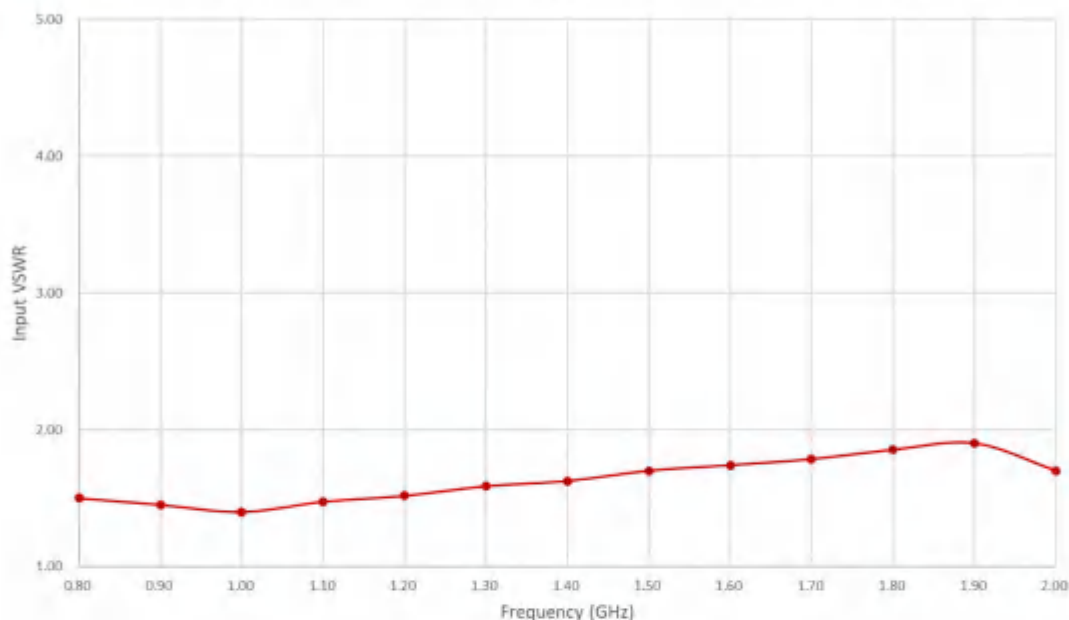


Figure 3: RFP-0080-0200-43 Input VSWR

P.A.E

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

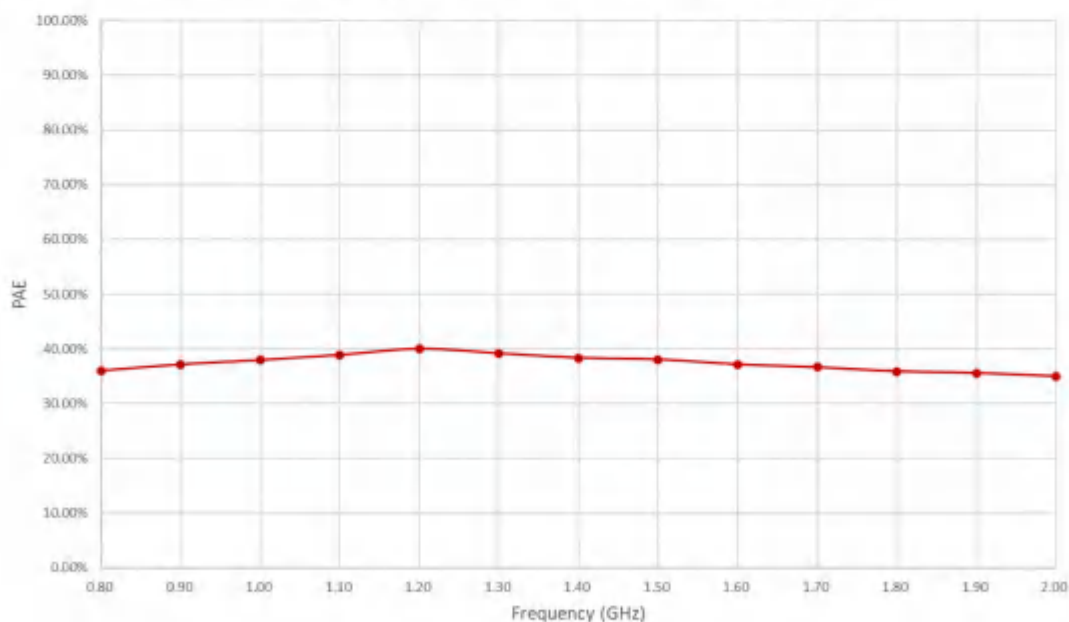


Figure 4: RFP-0080-0200-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

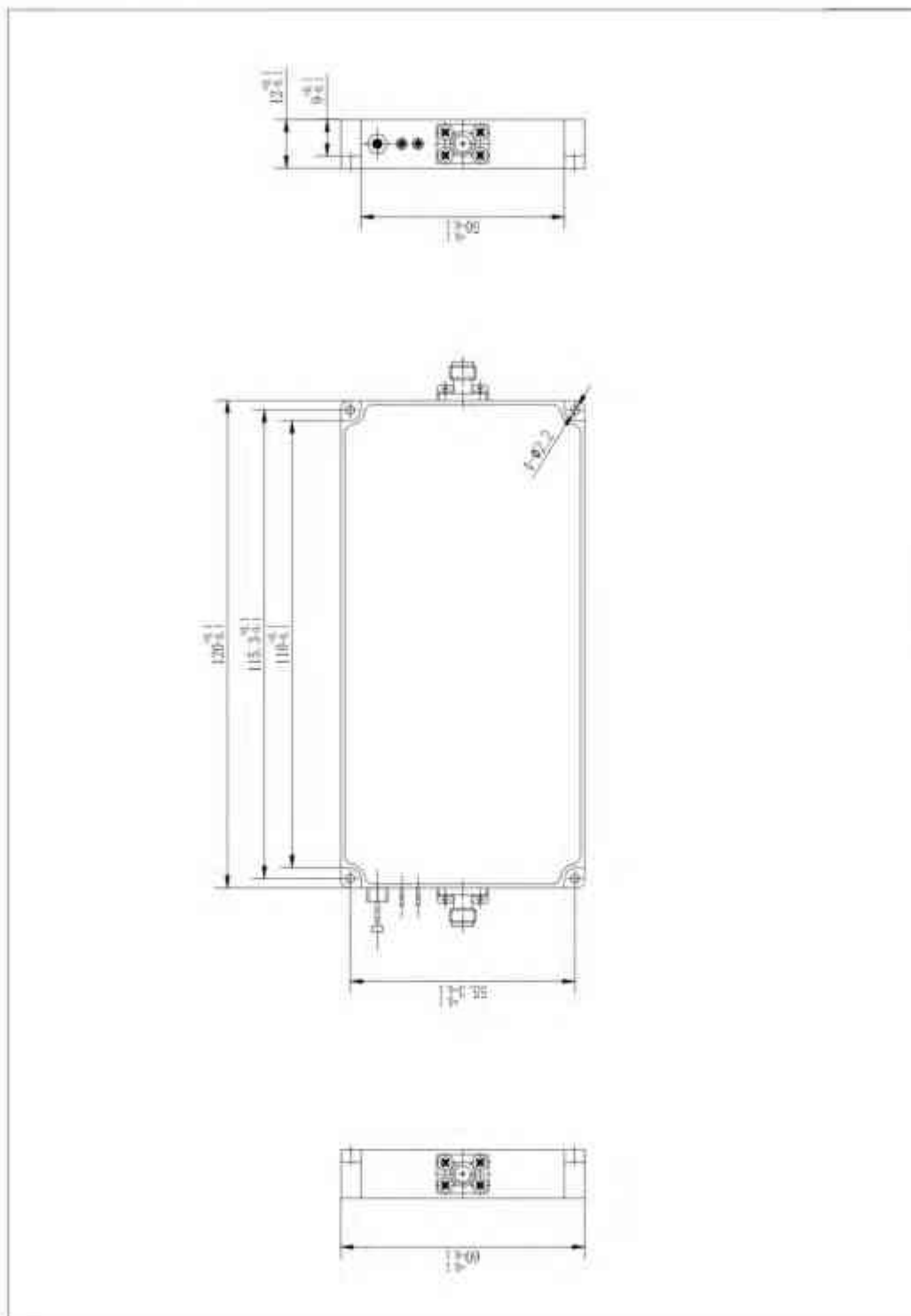
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

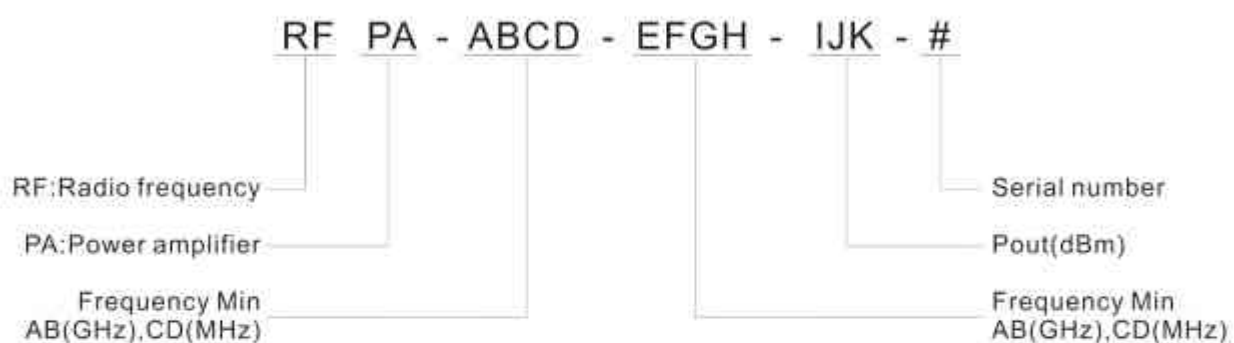




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 2.0 GHz.
- Typical values: Pout 47 dBm, Gain 39 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0200-47

The RFP-0080-0200-47 is a High Power Amplifier providing an output power of 47 dBm and a gain of 39 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	Typ	Max	
Frequency	0.8	-	2.0	GHz
Output Power		47		dBm
Small Signal Gain	37.5	39	40.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

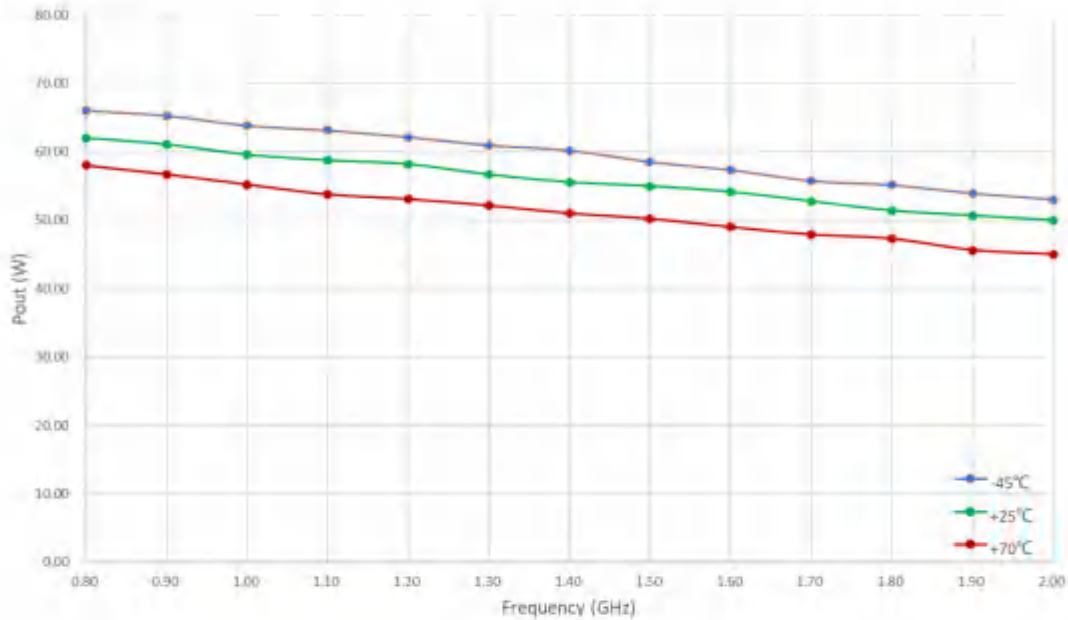


Figure 1: RFP-0080-0200-47 Psat

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.

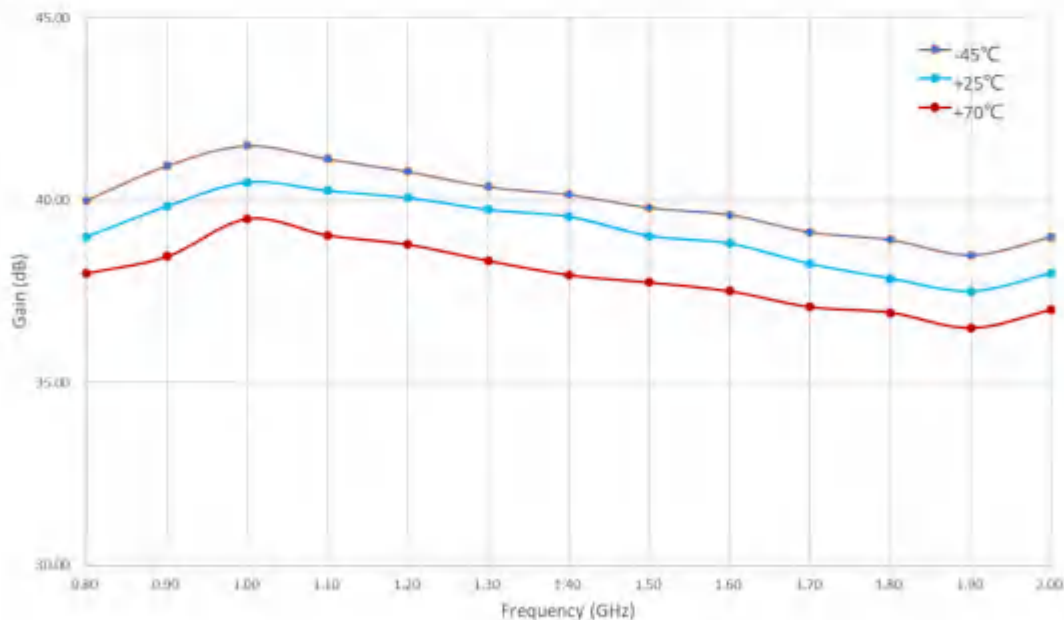


Figure 2: RFP-0080-0200-47 Small Signal Gain Vs Temperature

Input VSWR

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

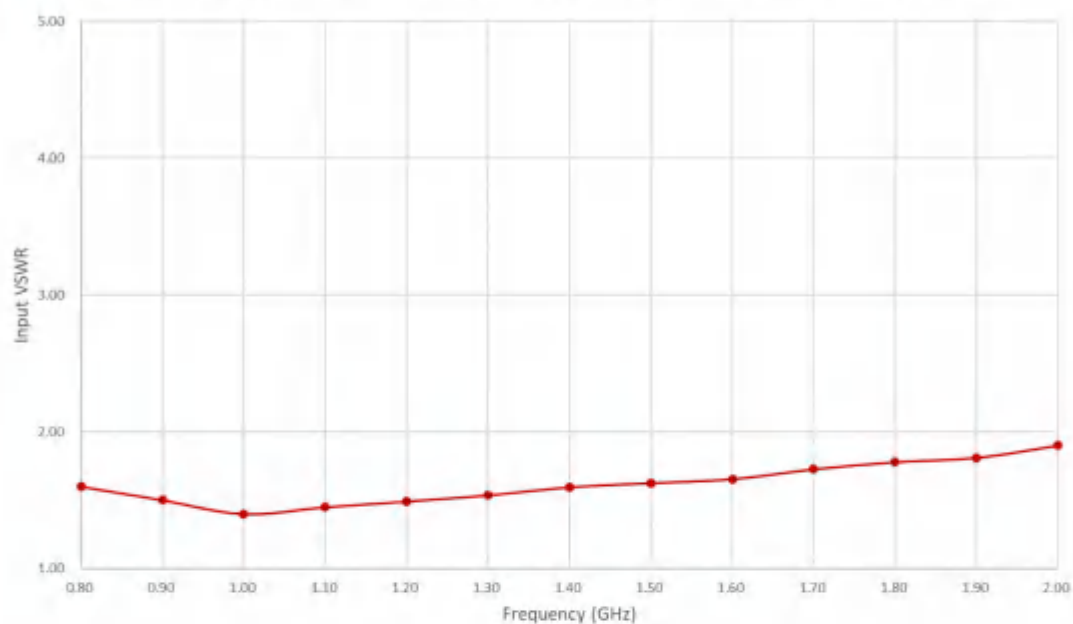


Figure 3: RFPA-0080-0200-47 Input VSWR

P.A.E

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

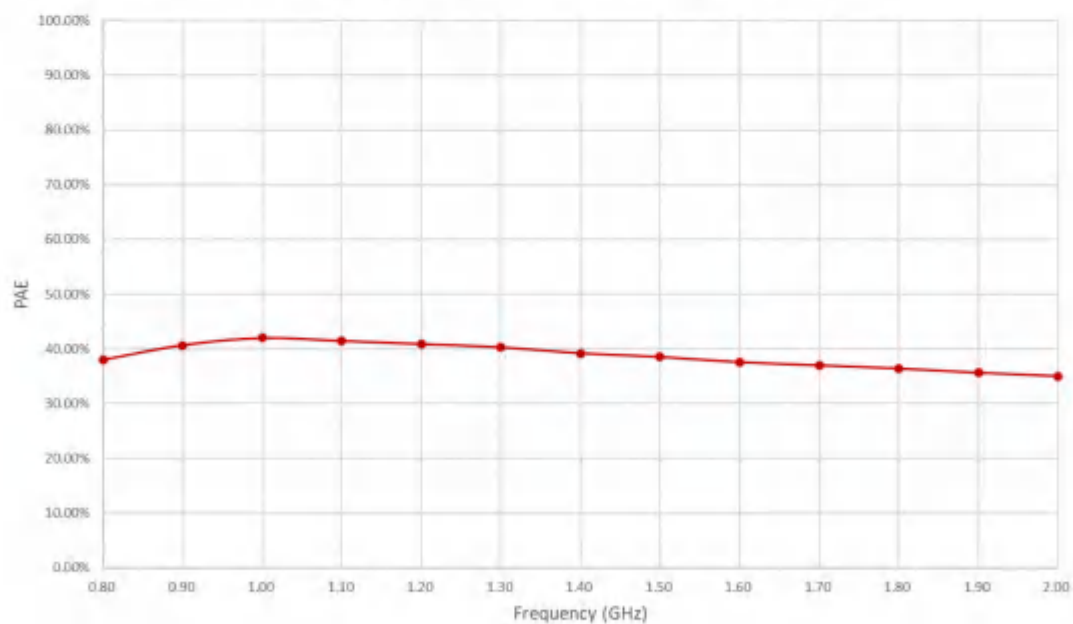


Figure 4: RFPA-0080-0200-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

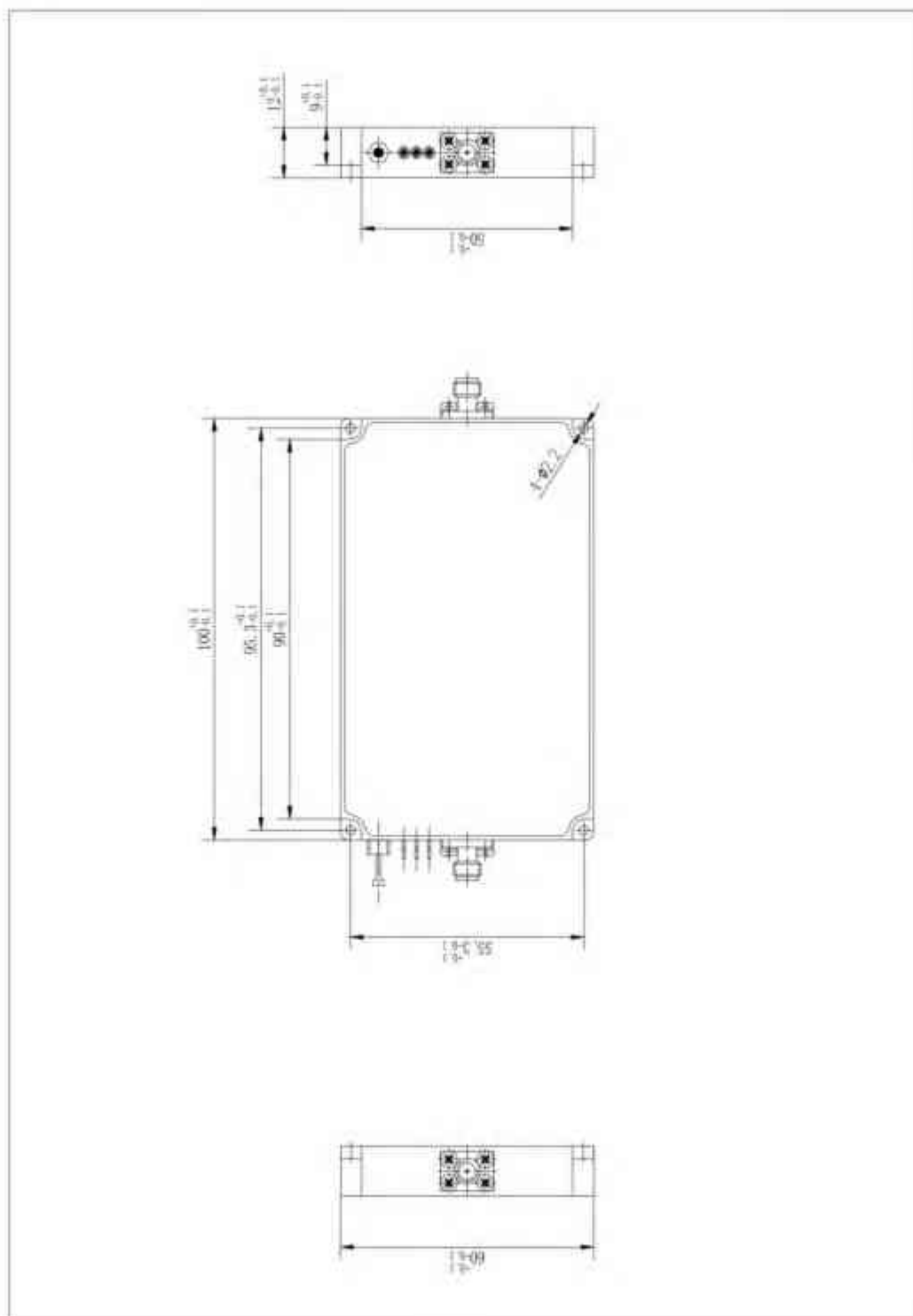
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

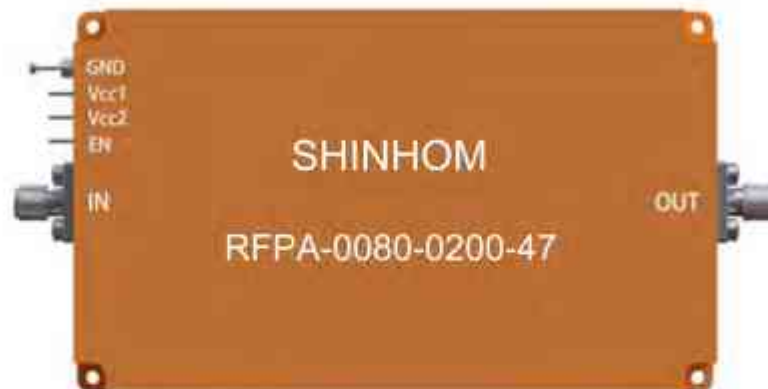
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

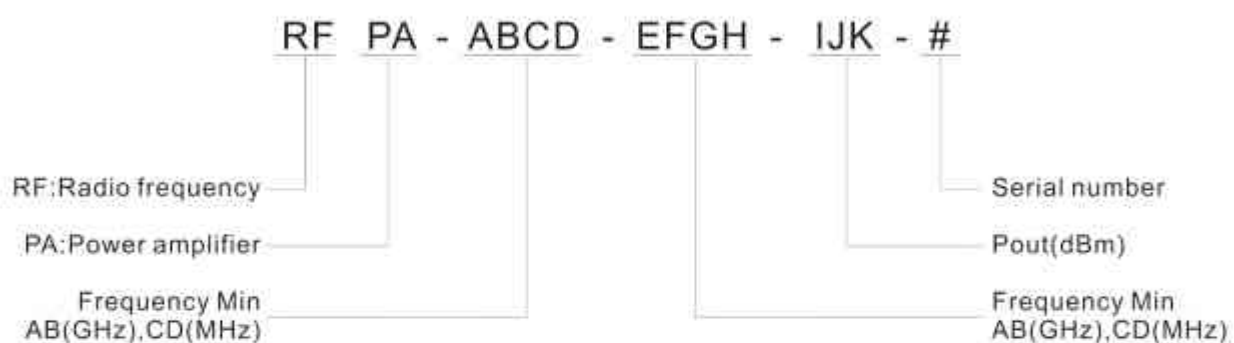




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 2.0 GHz.
- Typical values: Pout 50 dBm, Gain 38 dB
- Power Added Efficiency: 28%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0200-50

The RFP-0080-0200-50 is a High Power Amplifier providing an output power of 50 dBm and a gain of 38 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	Typ	Max	
Frequency	0.8	–	2.0	GHz
Output Power		50		dBm
Small Signal Gain	36.5	38	39.5	dB
Gain Flatness	-	± 1.5	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		32		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

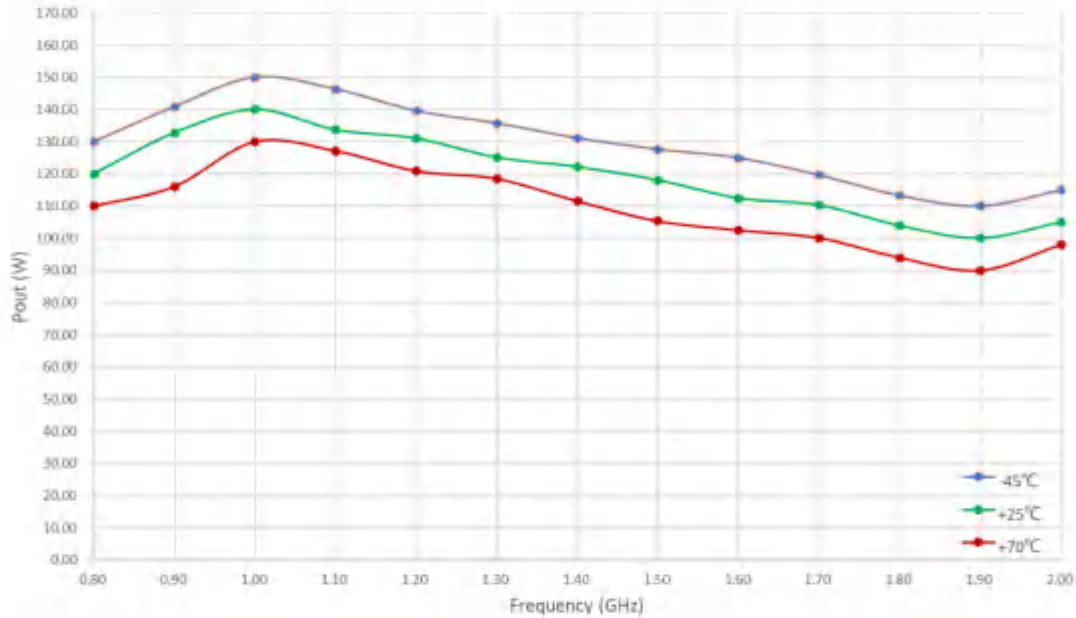


Figure 1: RFP A-0080-0200-50 Psat

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.

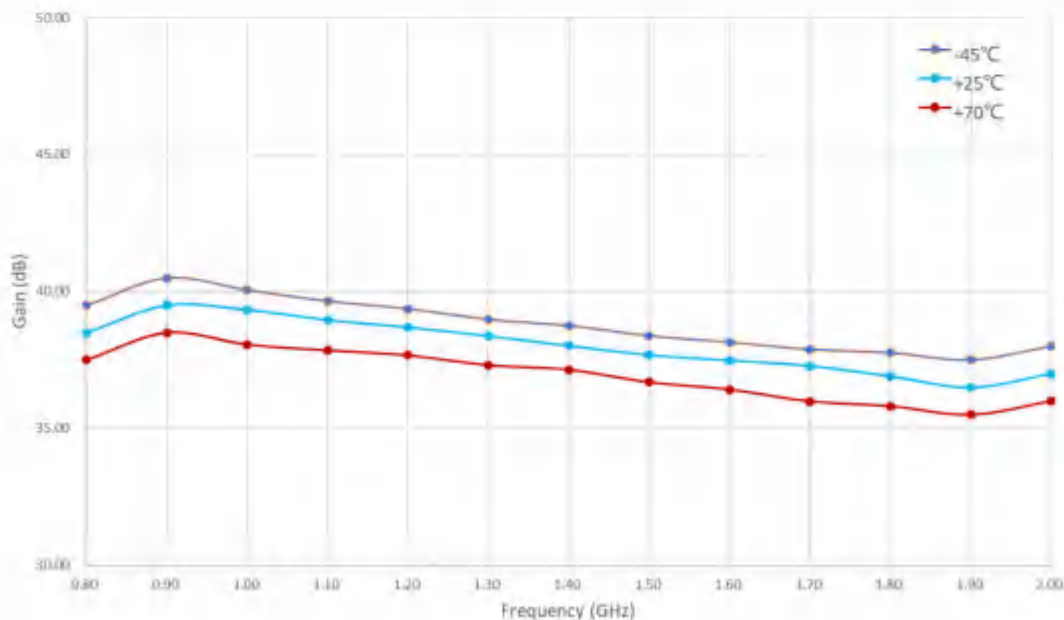


Figure 2: RFP A-0080-0200-50 Small Signal Gain Vs Temperature

Input VSWR

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

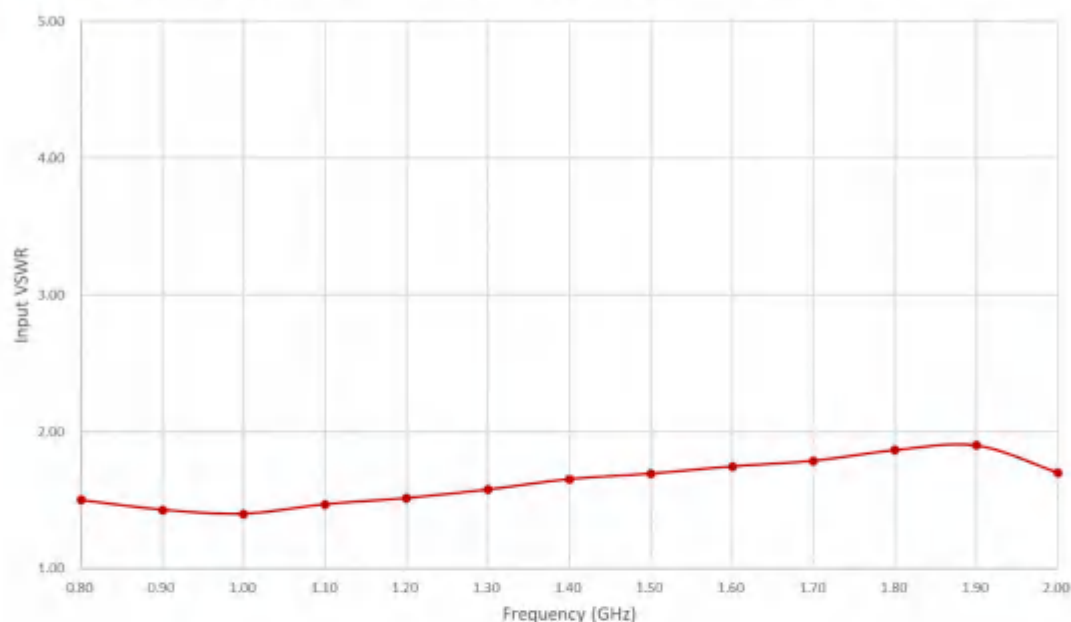


Figure 3: RFPA-0080-0200-50 Input VSWR

P.A.E

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

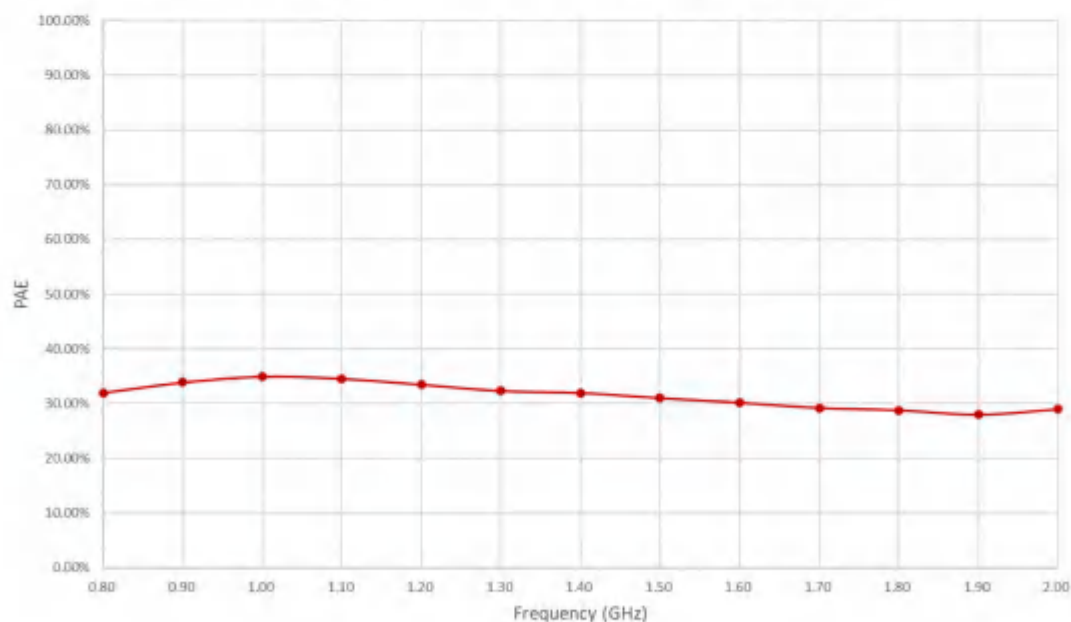


Figure 4: RFPA-0080-0200-50 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+36 VDC
Maximum Input Power (CW)	+20 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

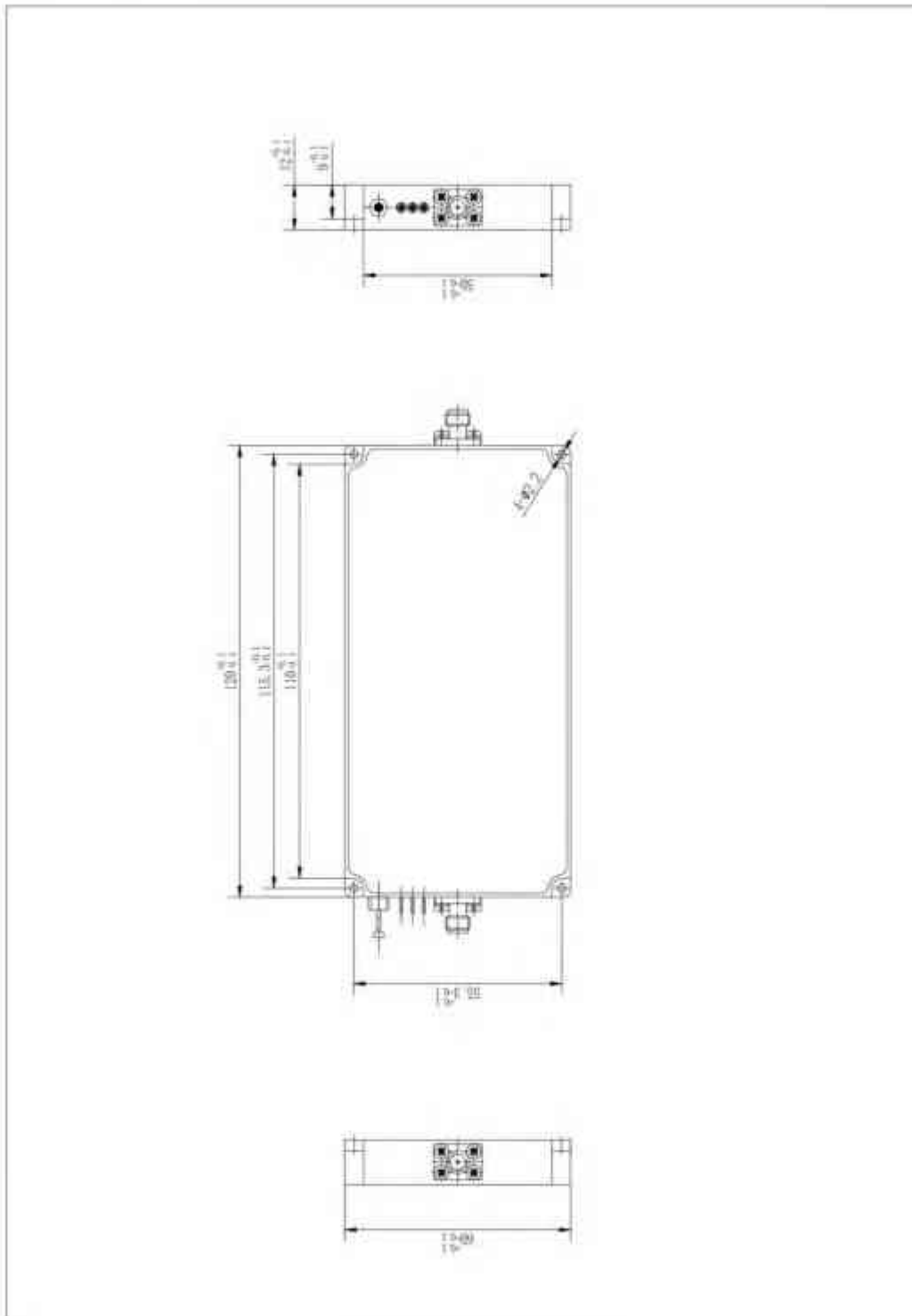
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

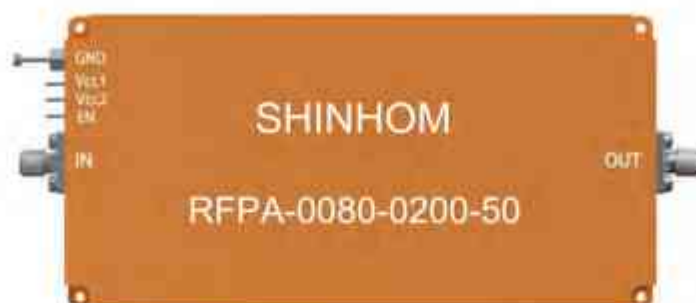
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

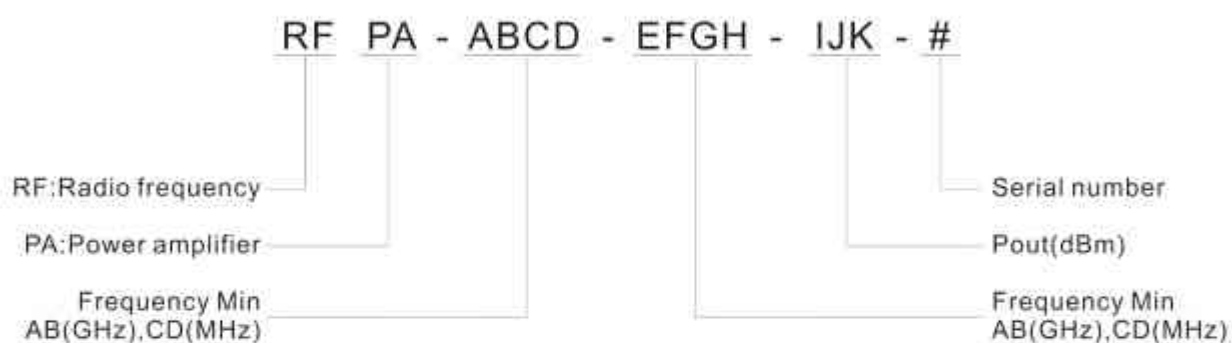




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 2.5 GHz.
- Typical values: Pout 43 dBm, Gain 41 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0250-43

The RFP-0080-0250-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 41 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	Typ	Max	
Frequency	0.8	-	2.5	GHz
Output Power		43		dBm
Small Signal Gain	39.5	41	42.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		32		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

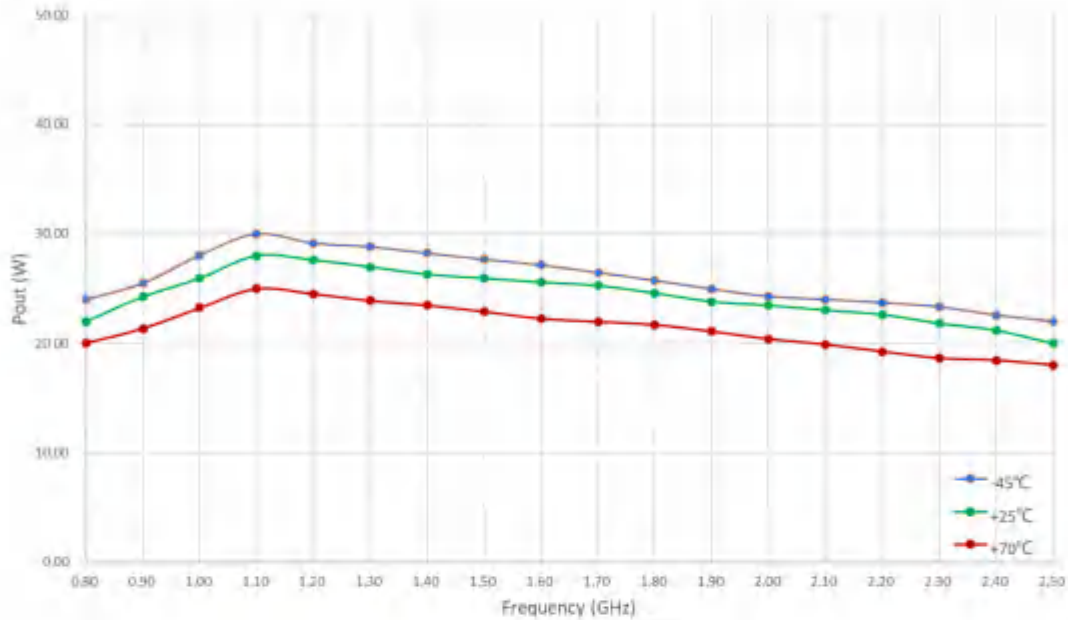


Figure 1: RFP-0080-0250-43 Psat

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.

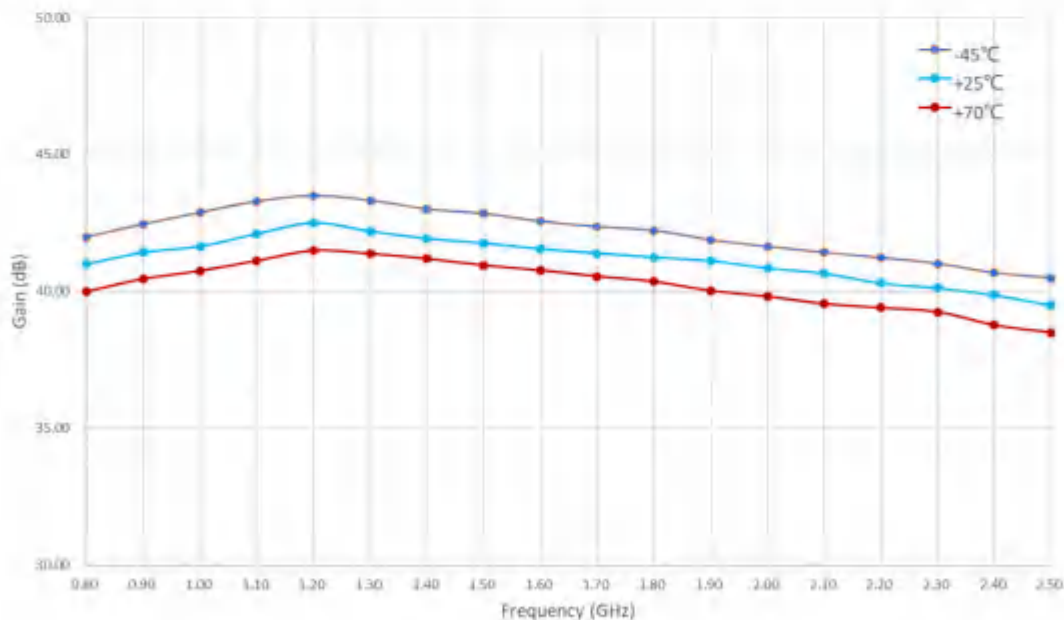


Figure 2: RFP-0080-0250-43 Small Signal Gain Vs Temperature

Input VSWR

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

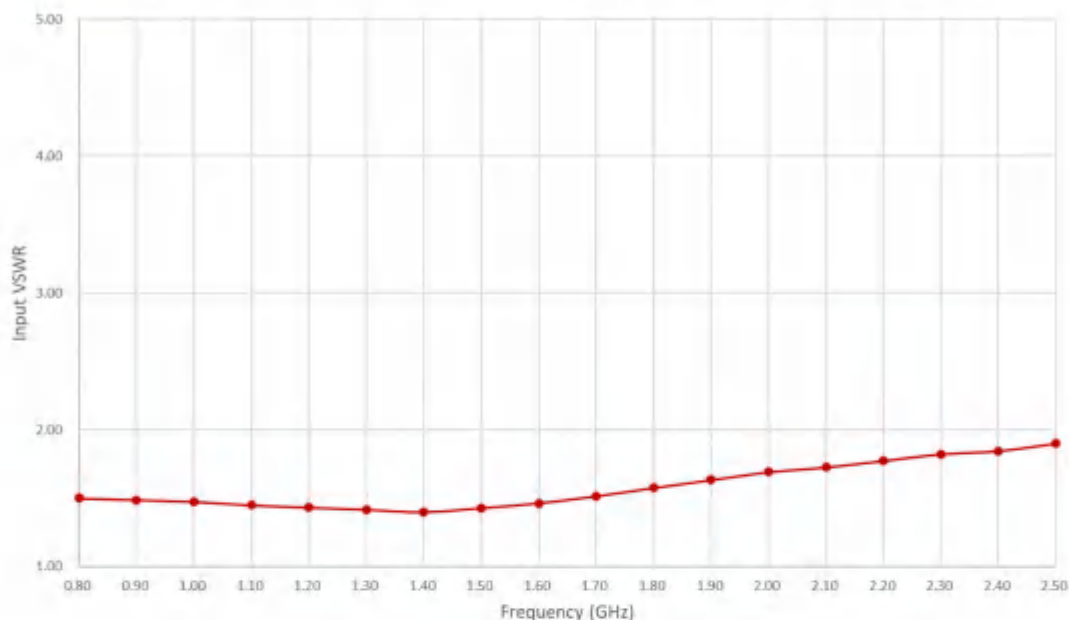


Figure 3: RFPA-0080-0250-43 Input VSWR

P.A.E

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

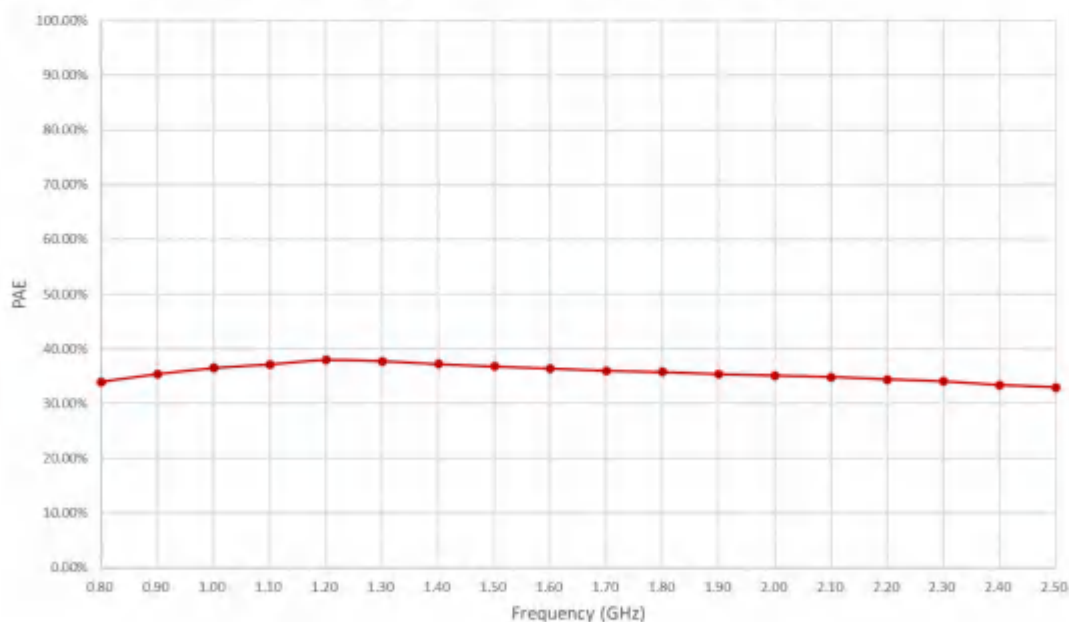


Figure 4: RFPA-0080-0250-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+36 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

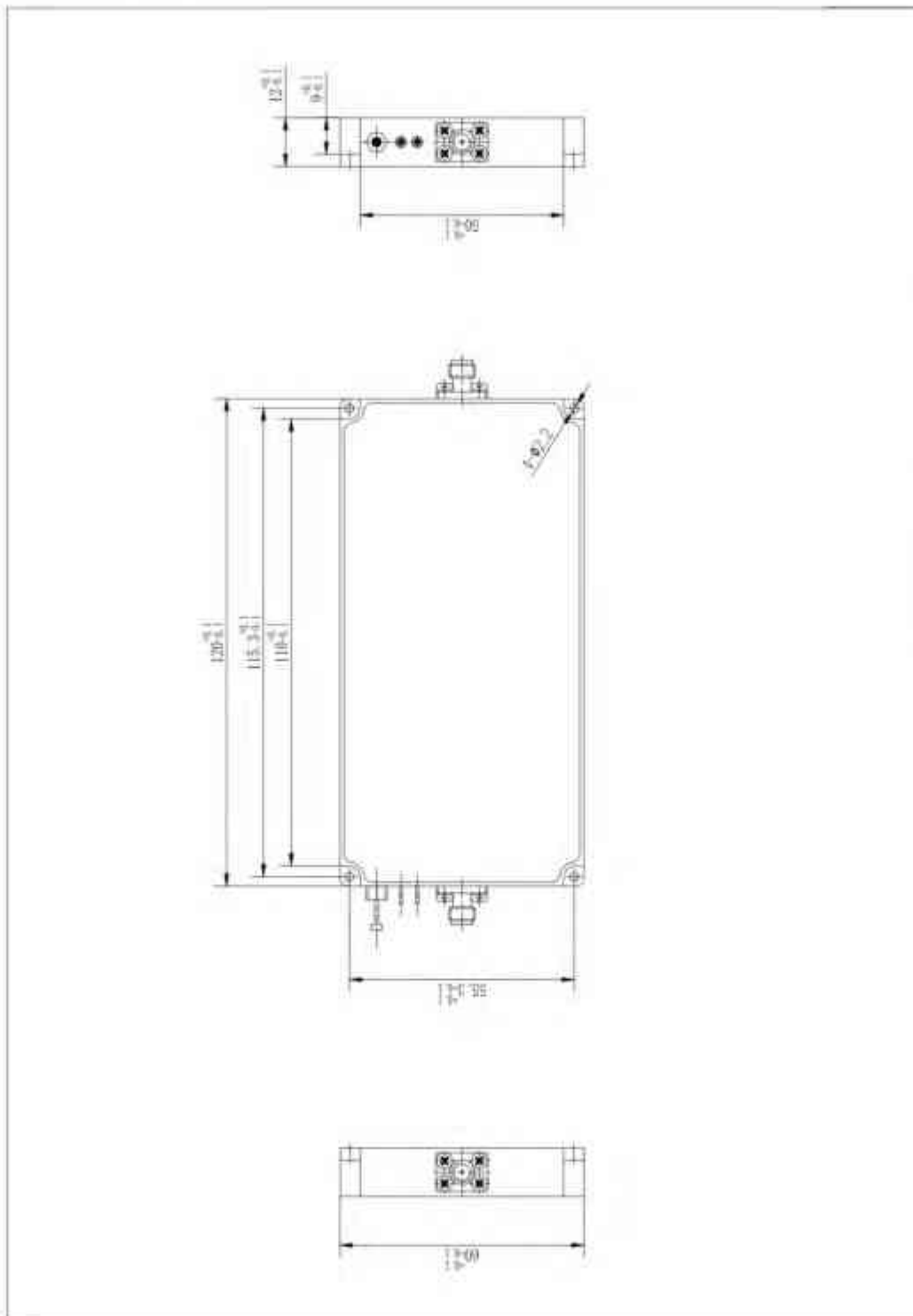
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

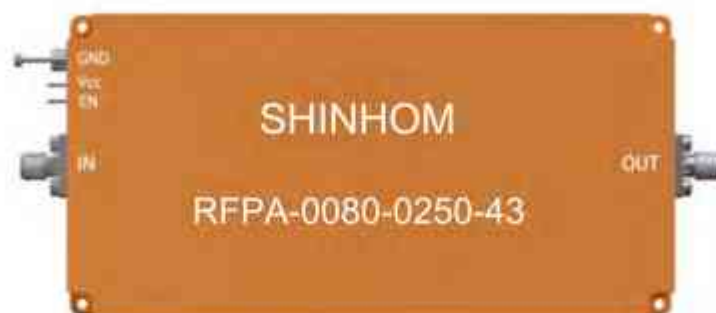
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

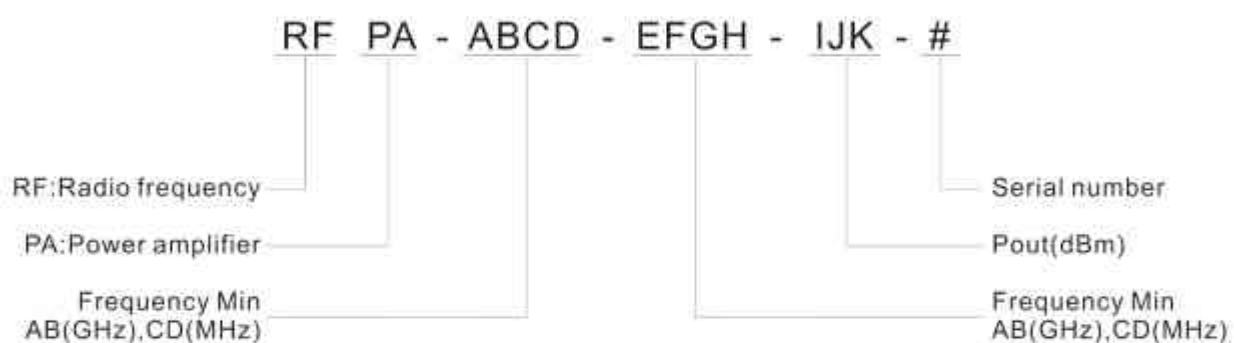




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 4.2 GHz.
- Typical values: Pout 40 dBm, Gain 42 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 2.0 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0420-40

The RFP-0080-0420-40 is a High Power Amplifier providing an output power of 40 dBm and a gain of 42 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	Typ	Max	
Frequency	0.8	-	4.2	GHz
Output Power		40		dBm
Small Signal Gain	40	42	44	dB
Gain Flatness	-	± 2.0	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

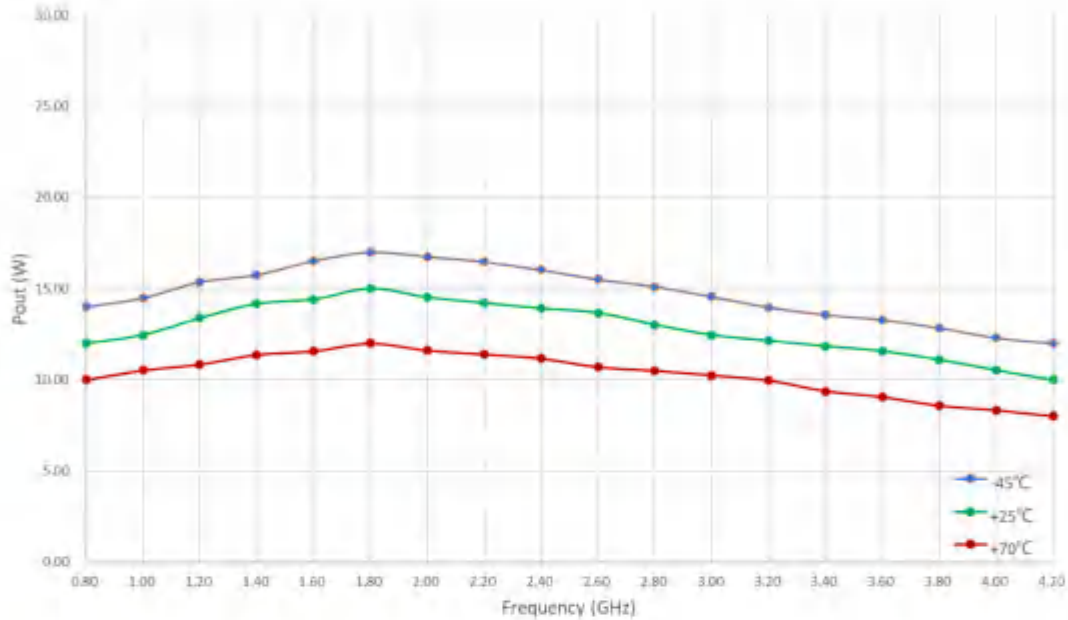


Figure 1: RFP-0080-0420-40 Psat

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.

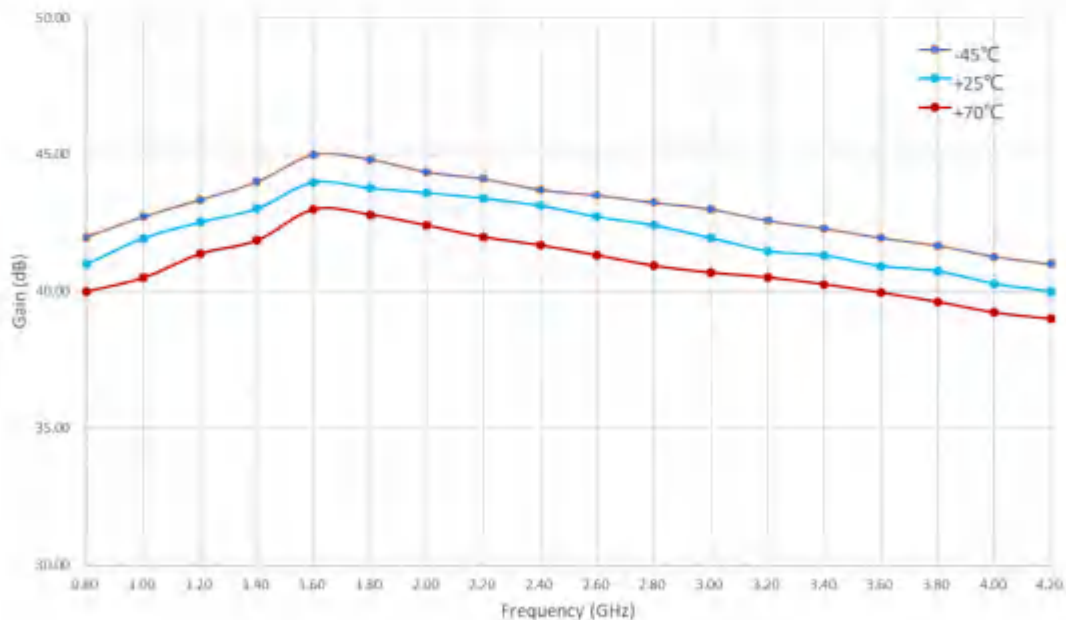


Figure 2: RFP-0080-0420-40 Small Signal Gain Vs Temperature

Input VSWR

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

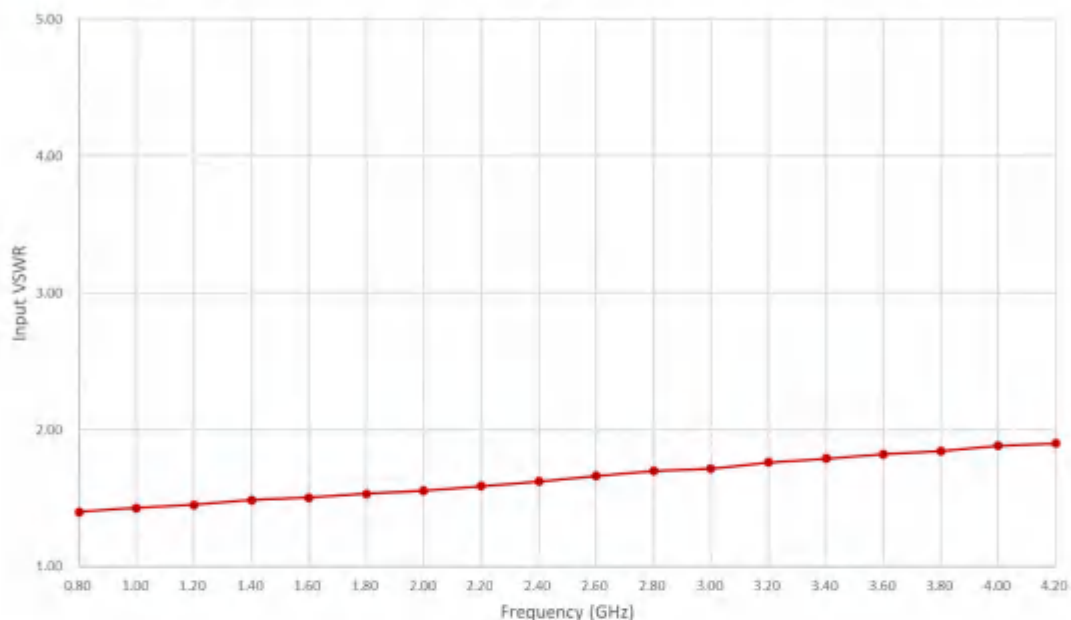


Figure 3: RFPA-0080-0420-40 Input VSWR

P.A.E

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

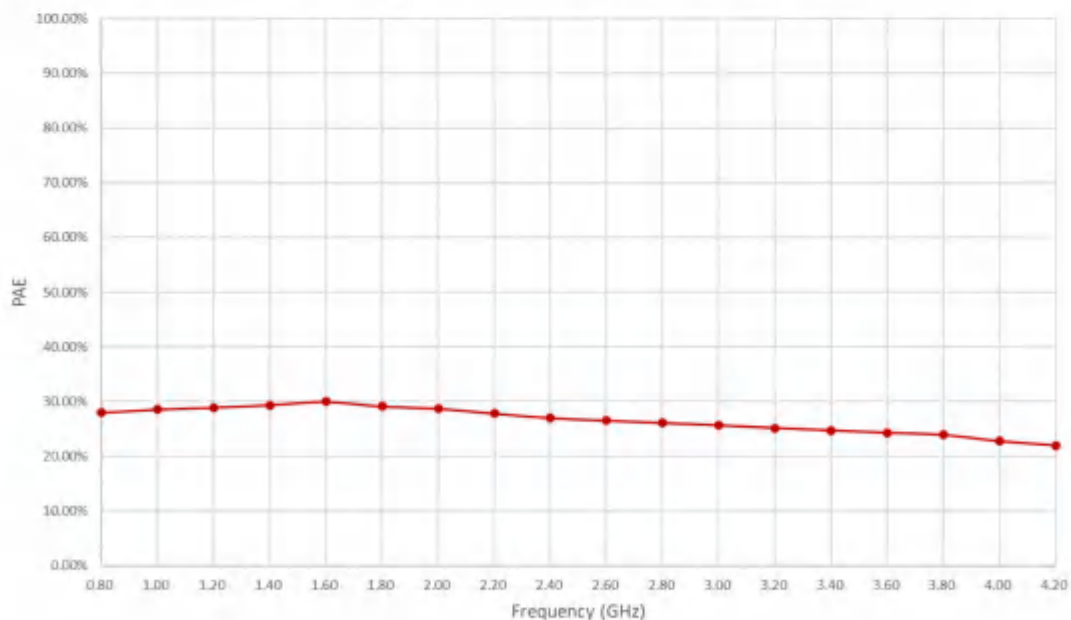


Figure 4: RFPA-0080-0420-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

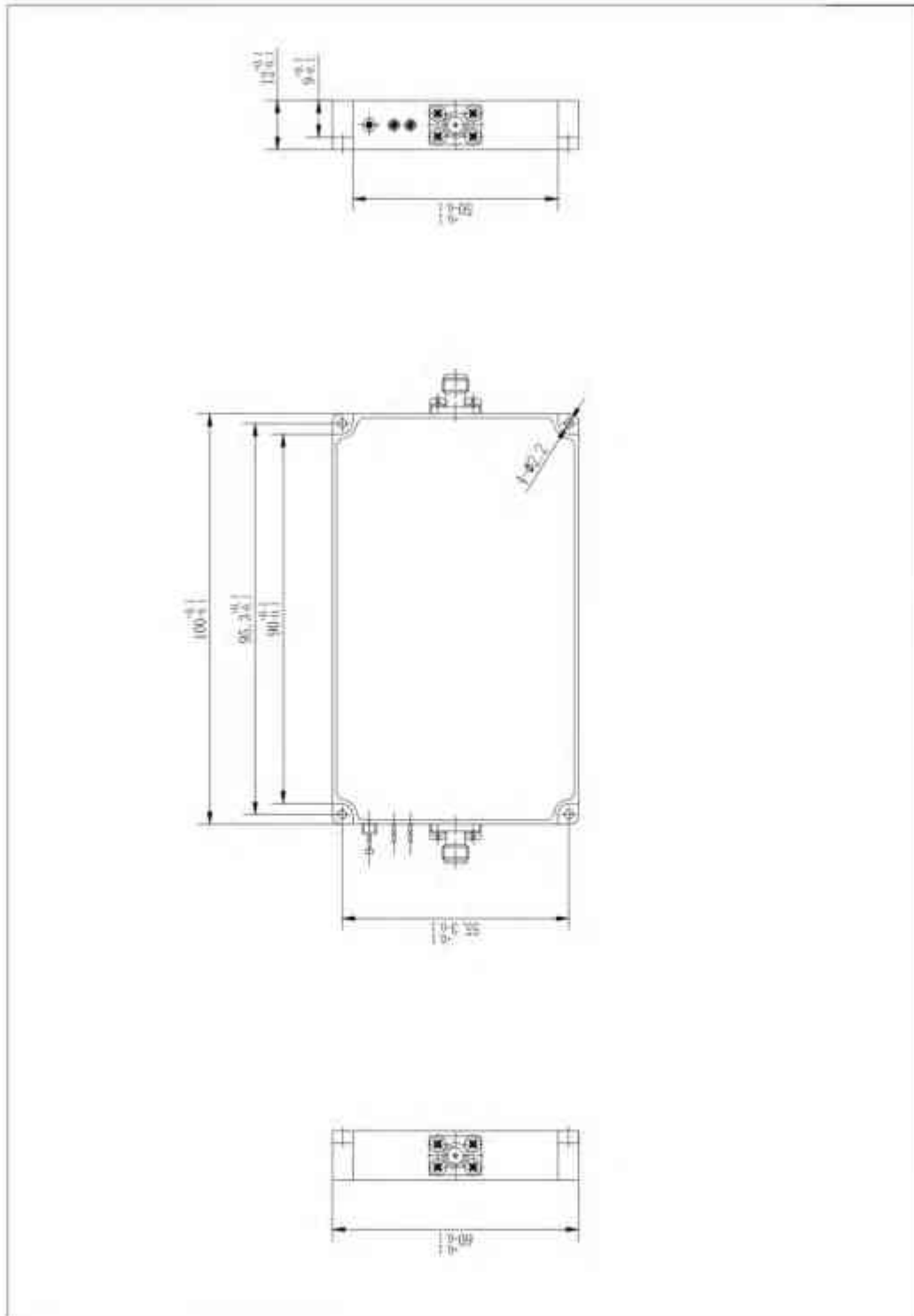
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

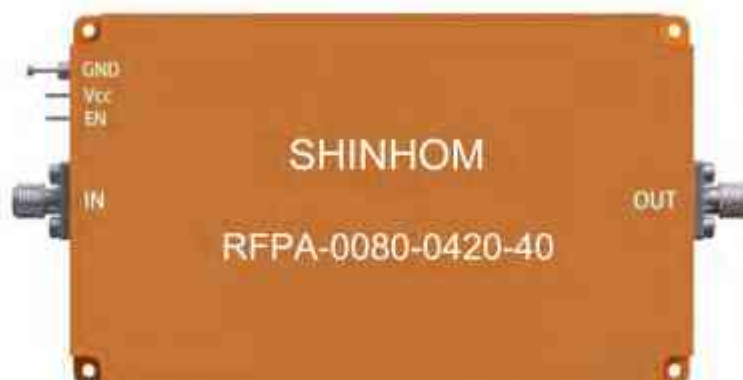
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

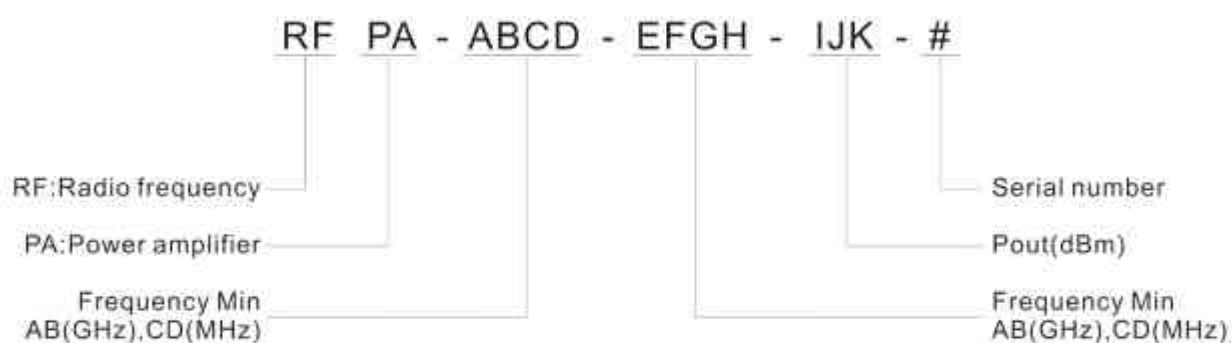




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 4.2 GHz.
- Typical values: Pout 45 dBm, Gain 38 dB
- Power Added Efficiency: 24%
- Gain Flatness ± 2.0 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0080-0420-45

The RFP-0080-0420-45 is a High Power Amplifier providing an output power of 45 dBm and a gain of 38 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	Typ	Max	
Frequency	0.8	-	4.2	GHz
Output Power		45		dBm
Small Signal Gain	36	38	40	dB
Gain Flatness	-	± 2.0	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

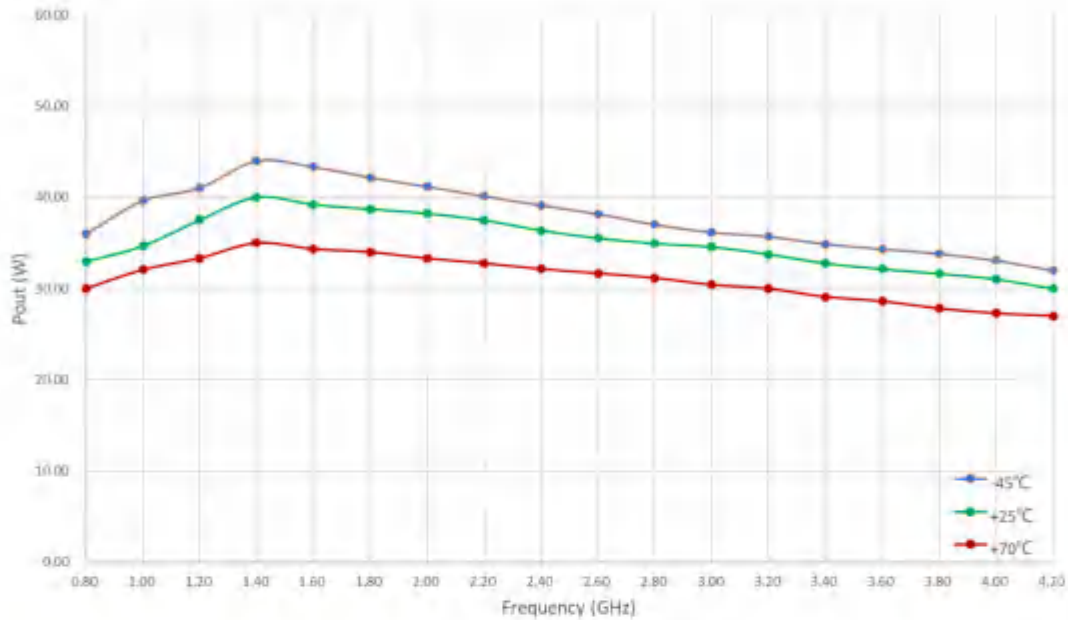


Figure 1: RFP-0080-0420-45 P_{sat}

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.

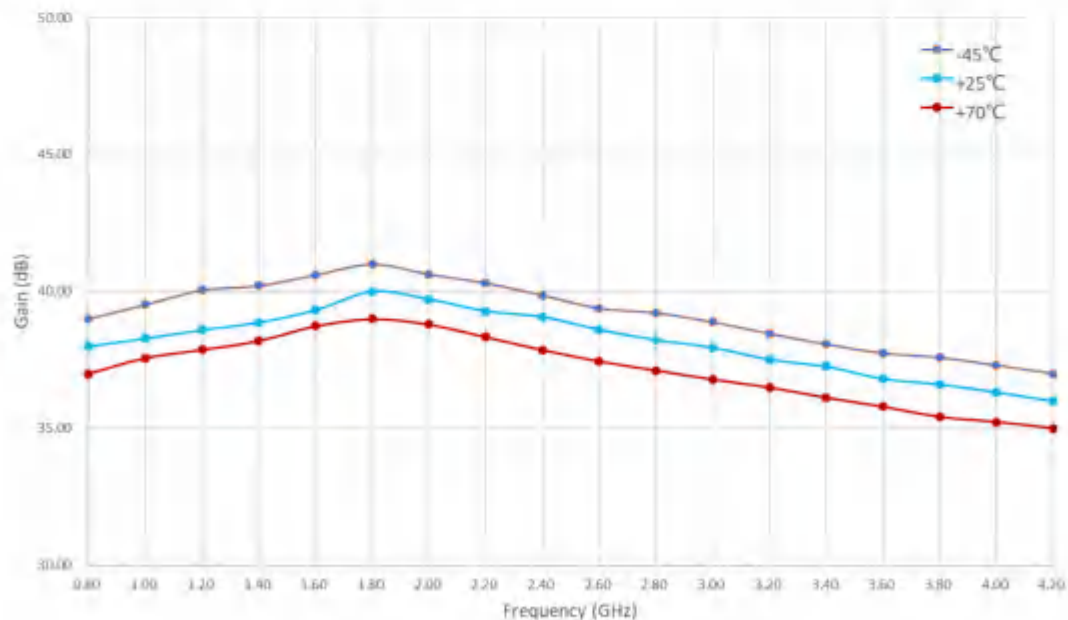


Figure 2: RFP-0080-0420-45 Small Signal Gain Vs Temperature

Input VSWR

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

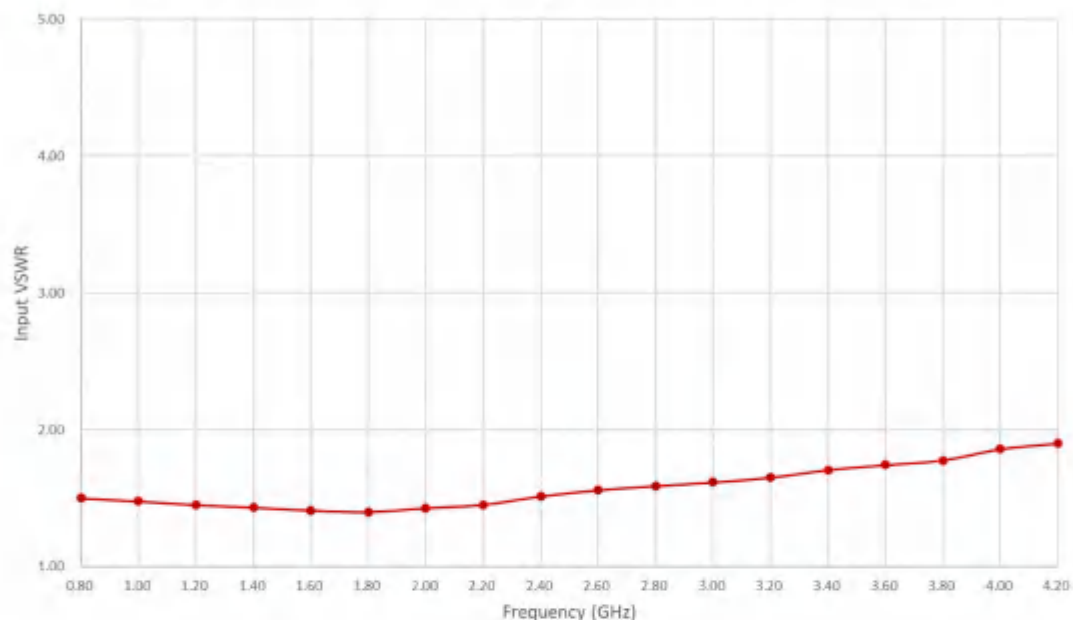


Figure 3: RFPA-0080-0420-45 Input VSWR

P.A.E

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

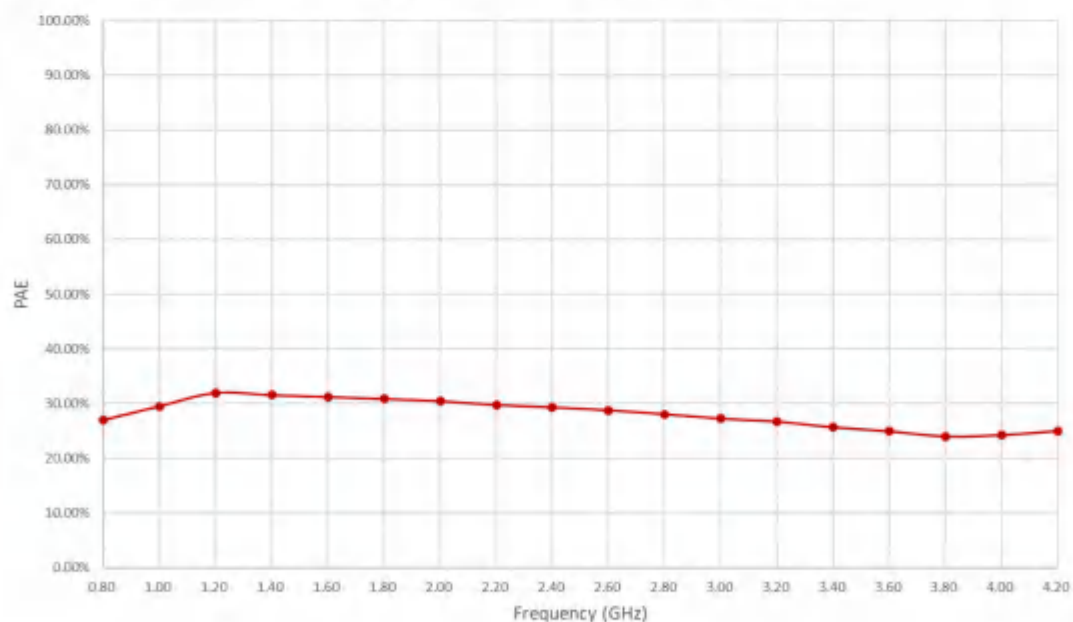


Figure 4: RFPA-0080-0420-45 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

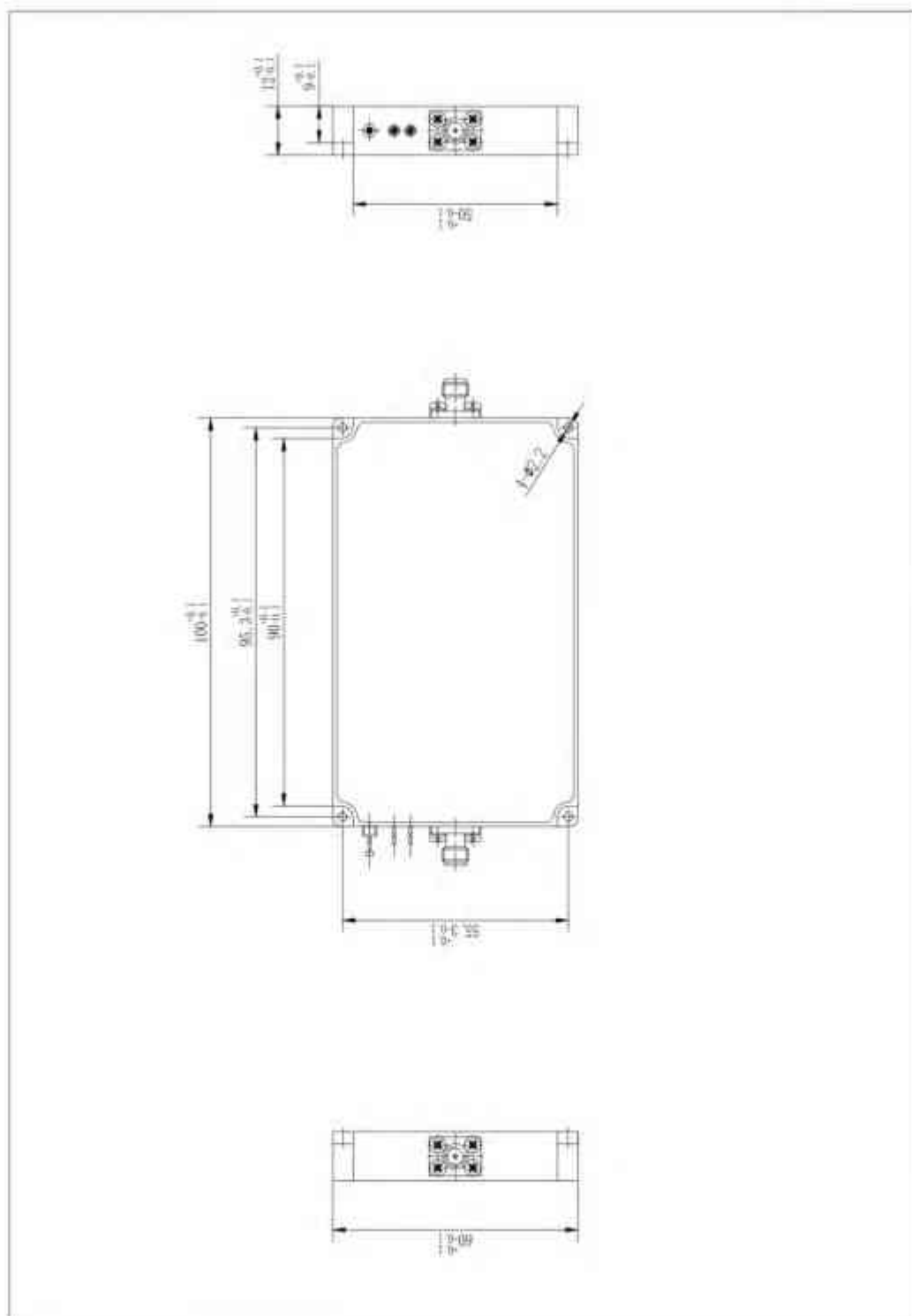
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

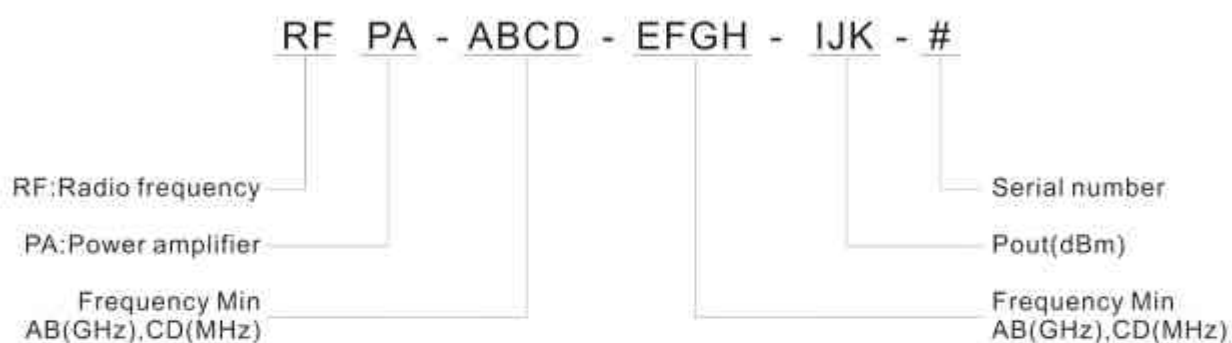




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 4.2 GHz.
- Typical values: Pout 47 dBm, Gain 44 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 2.0 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0080-0420-47

The RFPA-0080-0420-47 is a High Power Amplifier providing an output power of 47 dBm and a gain of 44 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	Typ	Max	
Frequency	0.8	-	4.2	GHz
Output Power		47		dBm
Small Signal Gain	42	44	46	dB
Gain Flatness	-	± 2.0	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

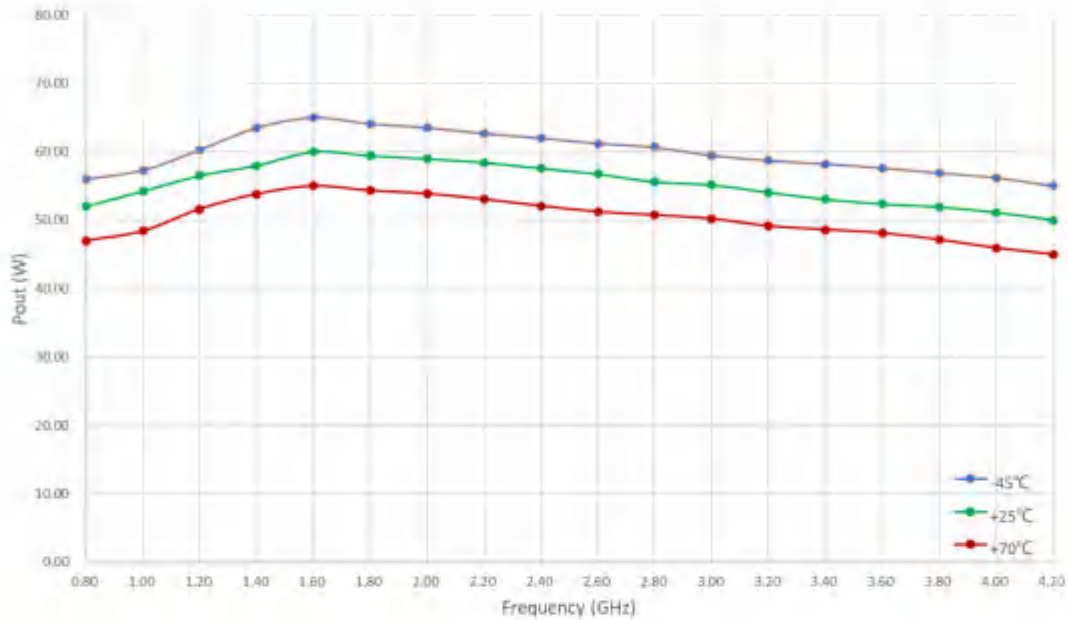


Figure 1: RFP-0080-0420-47 Psat

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.

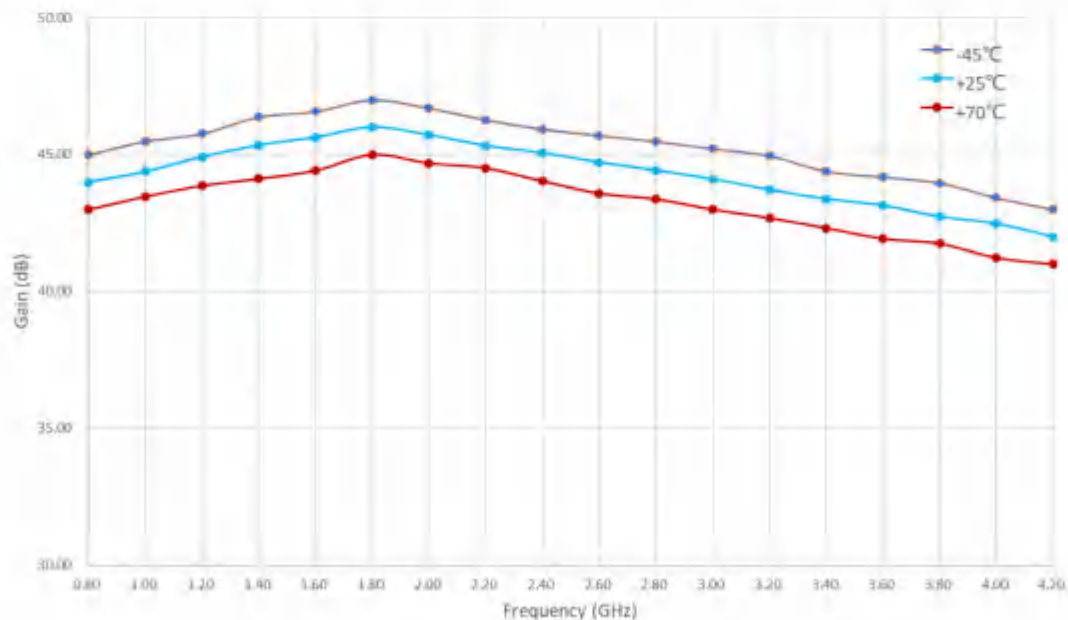


Figure 2: RFP-0080-0420-47 Small Signal Gain Vs Temperature

Input VSWR

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

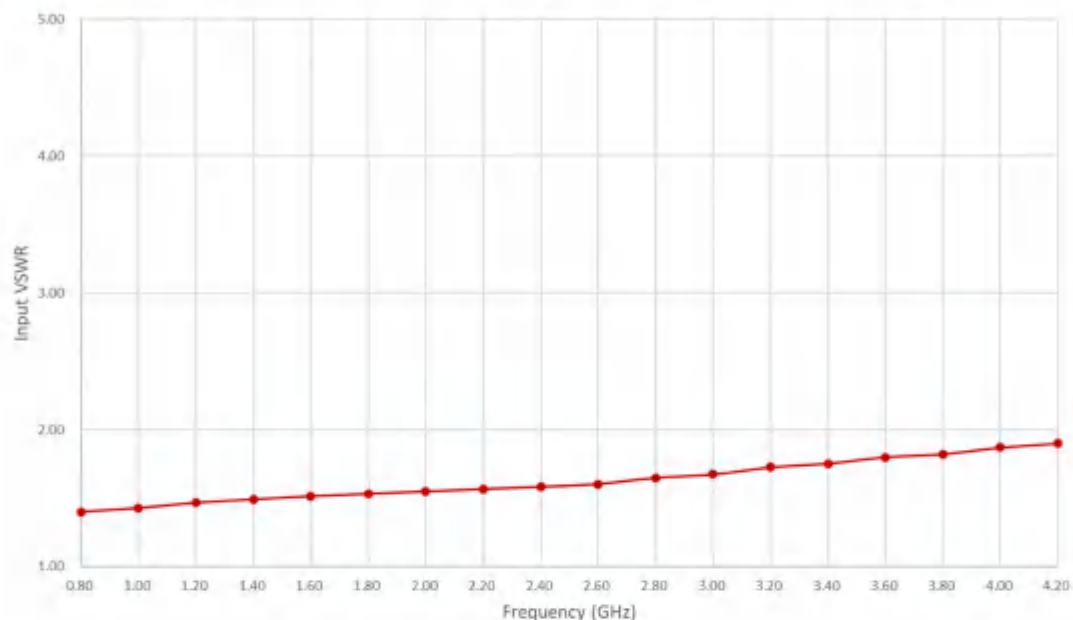


Figure 3: RFPA-0080-0420-47 Input VSWR

P.A.E

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

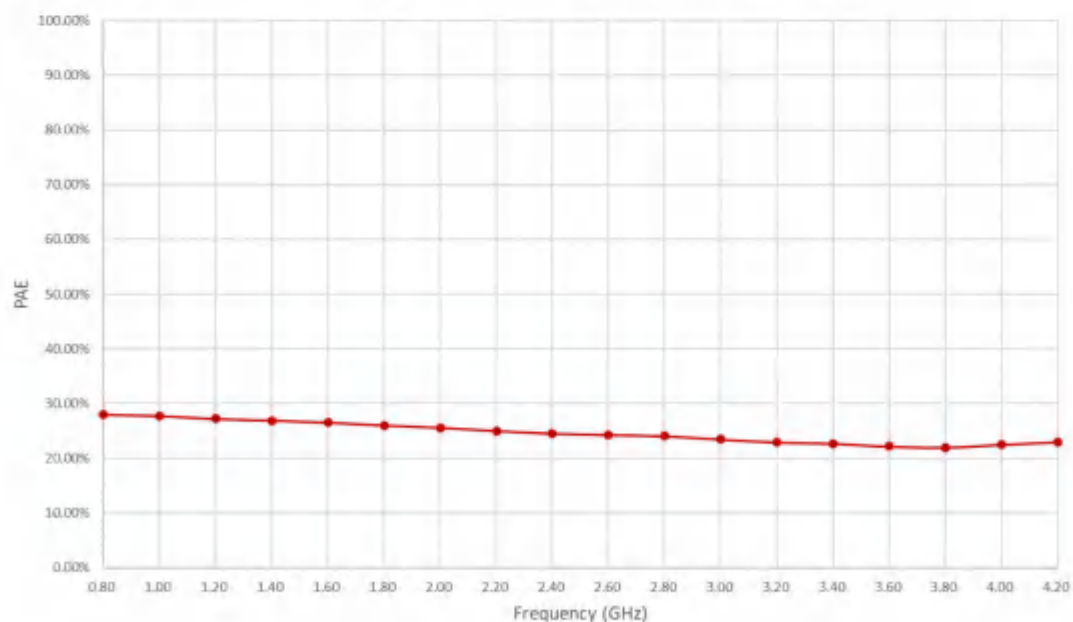


Figure 4: RFPA-0080-0420-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

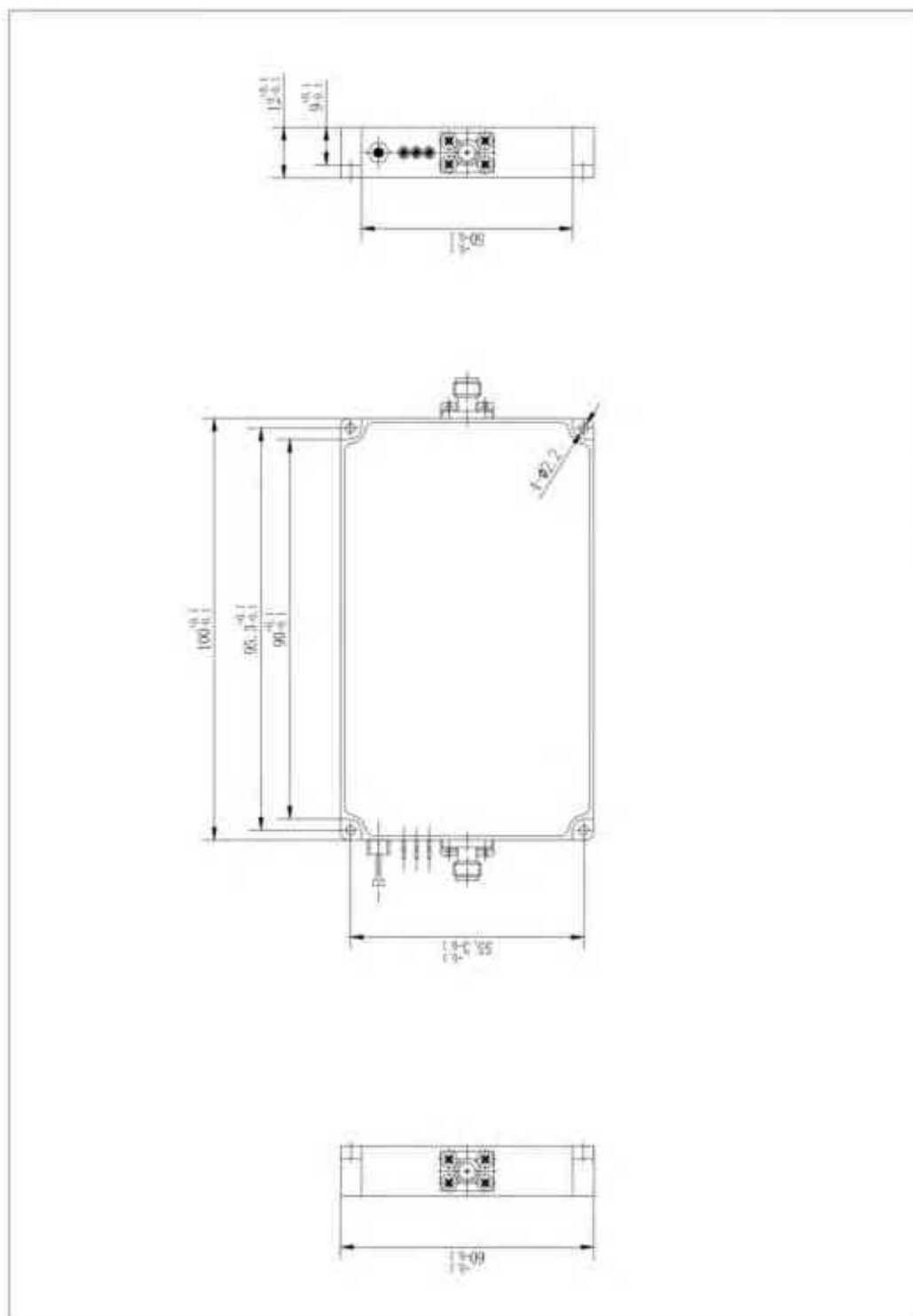
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

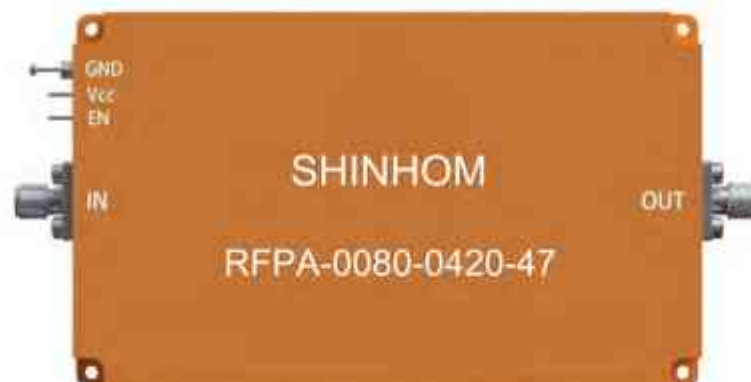
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

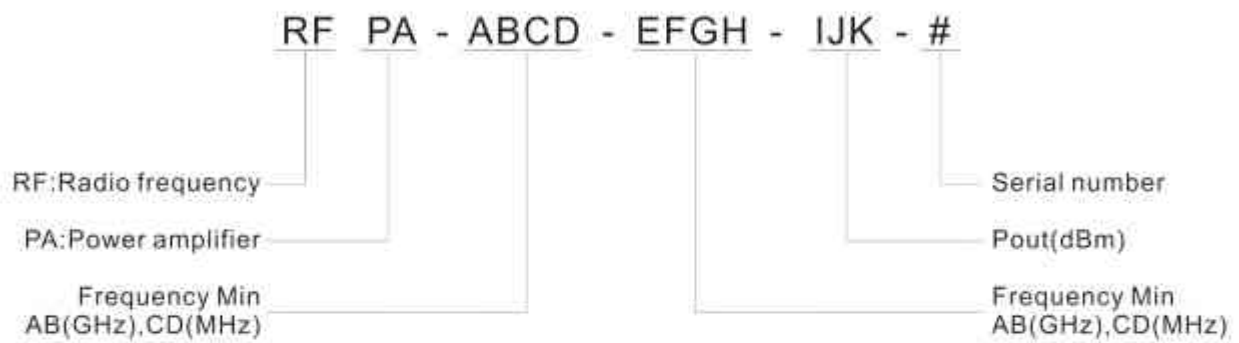




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.8 to 4.2 GHz.
- Typical values: Pout 49 dBm, Gain 40 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 2 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0080-0420-49

The RFPA-0080-0420-49 is a High Power Amplifier providing an output power of 49 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	Typ	Max	
Frequency	0.8	-	4.2	GHz
Output Power		49		dBm
Small Signal Gain	38	40	42	dB
Gain Flatness	-	± 2	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

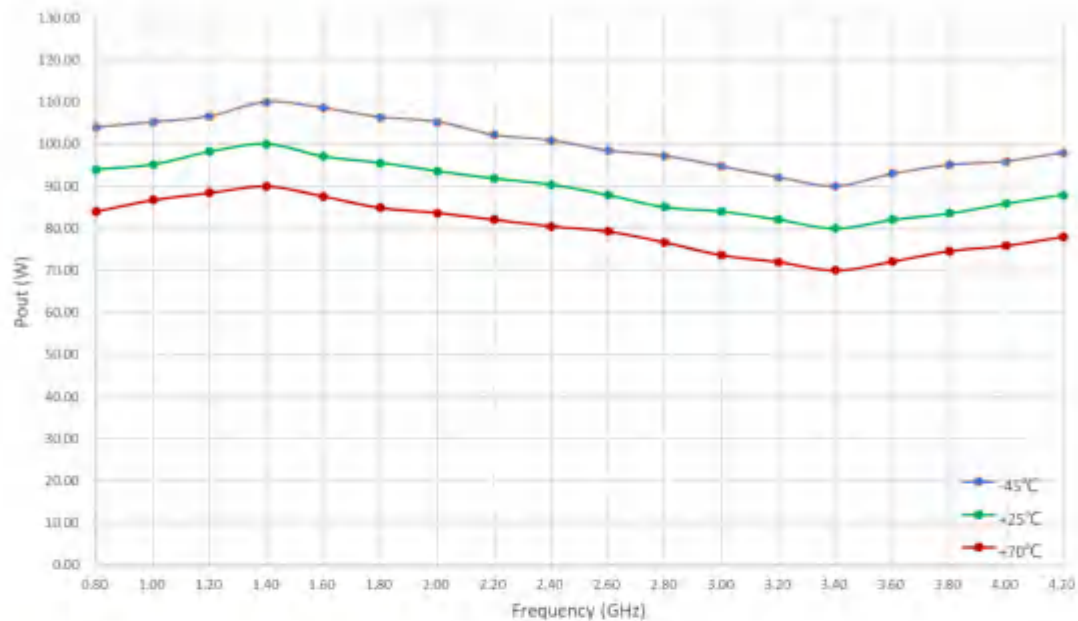


Figure 1: RFP-0080-0420-49 Psat

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.

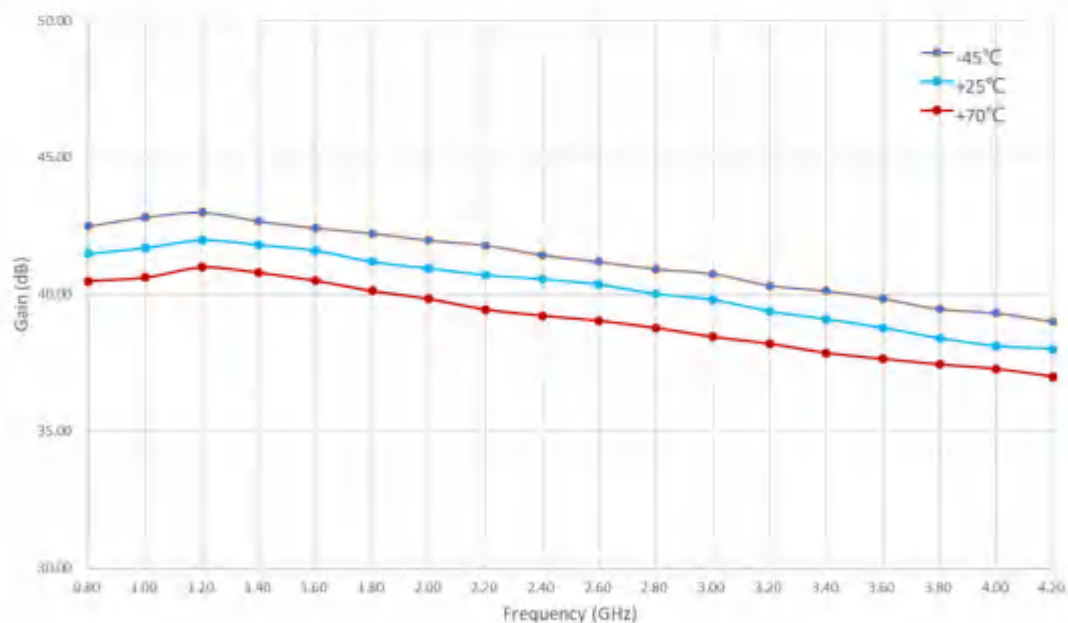


Figure 2: RFP-0080-0420-49 Small Signal Gain Vs Temperature

Input VSWR

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

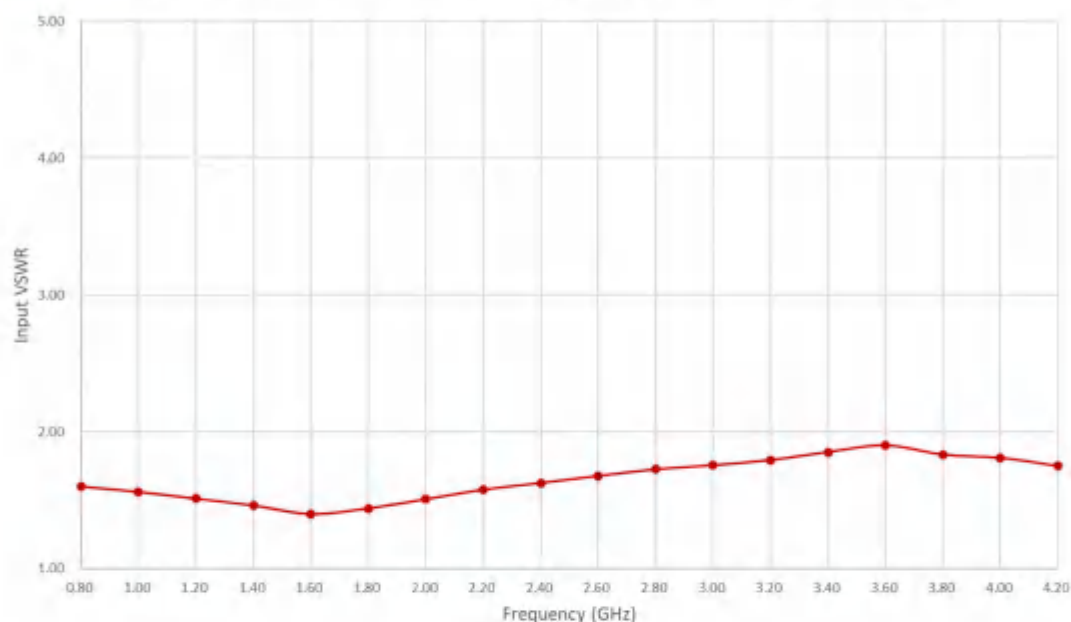


Figure 3: RFPA-0080-0420-49 Input VSWR

P.A.E

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

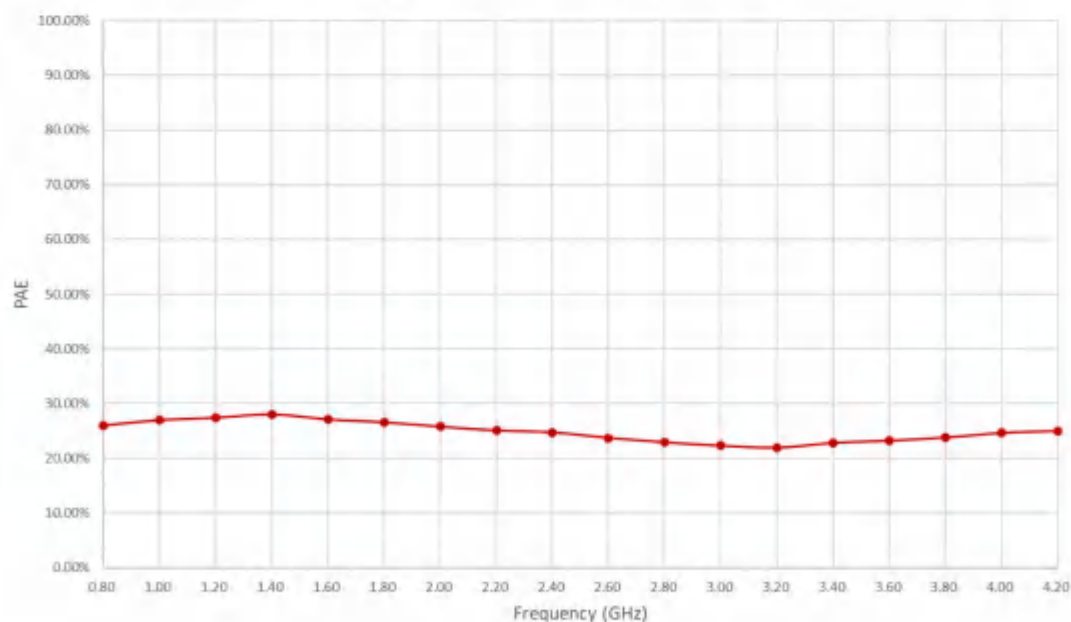


Figure 4: RFPA-0080-0420-49 P.A.E

Absolute Maximum Ratings

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

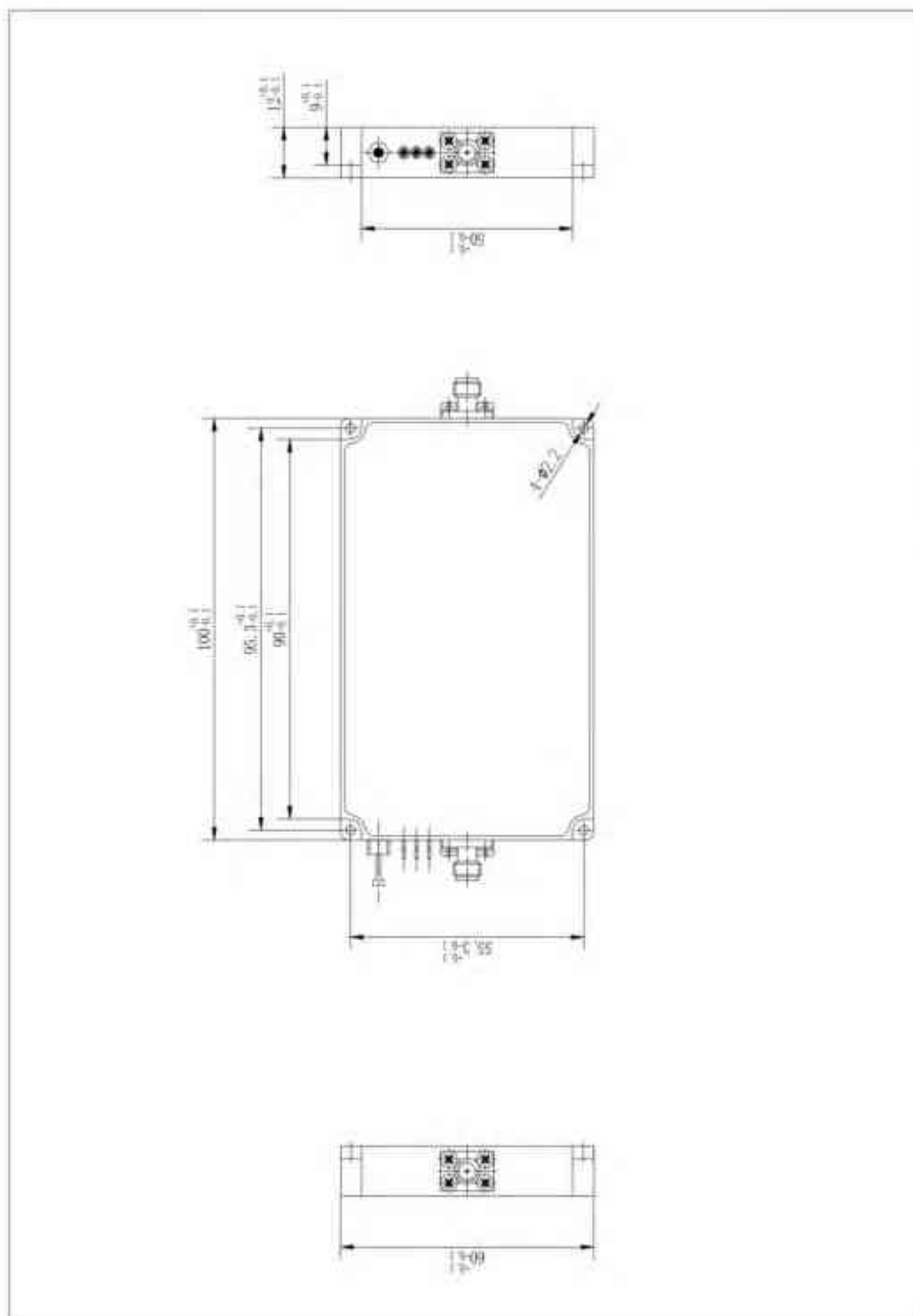
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

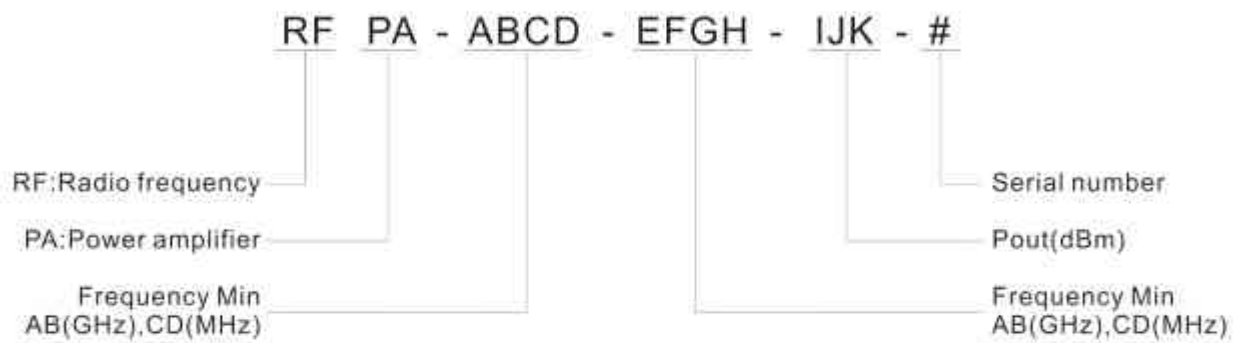




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 1.0 to 2.0 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 35%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0100-0200-50-1

The RFP-0100-0200-50-1 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	1.0	–	2.0	GHz
Output Power		50		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	–	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

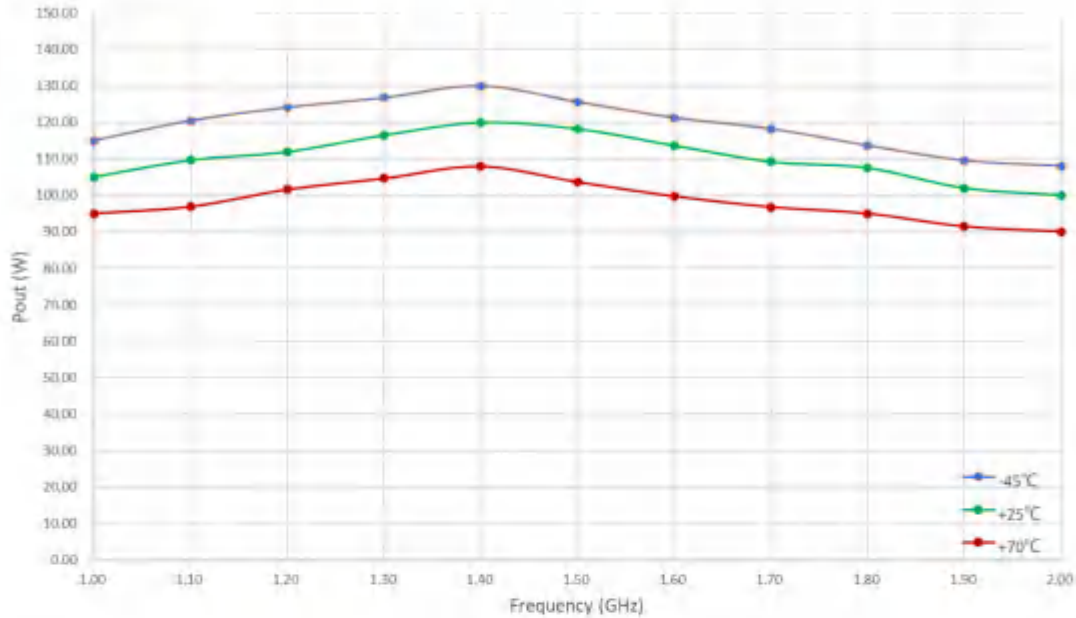


Figure 1: RFP-0100-0200-50-1 Psat

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.

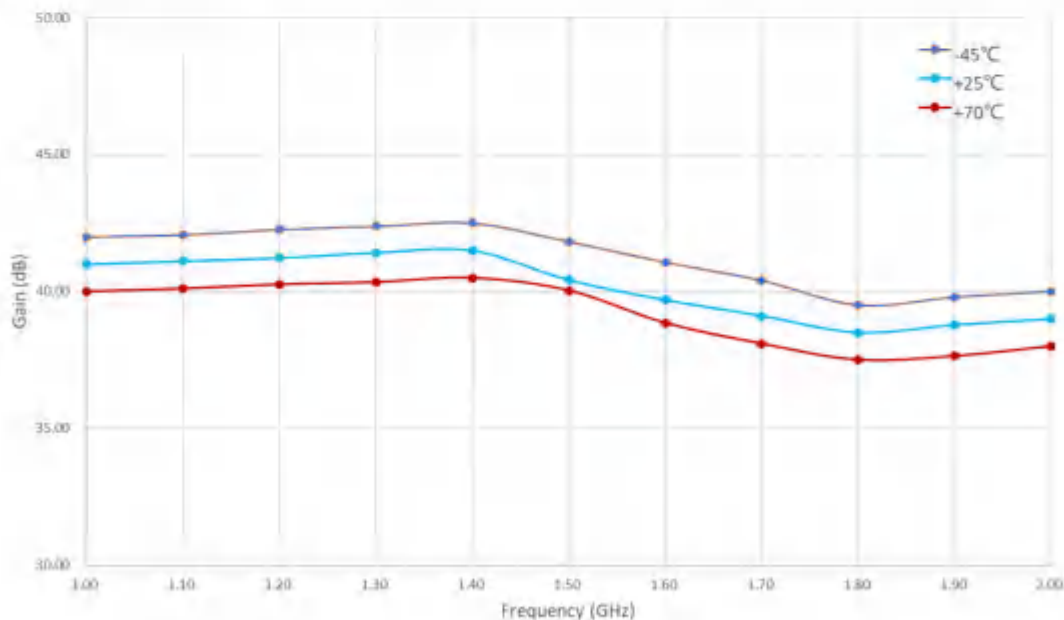


Figure 2: RFP-0100-0200-50-1 Small Signal Gain Vs Temperature

Input VSWR

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

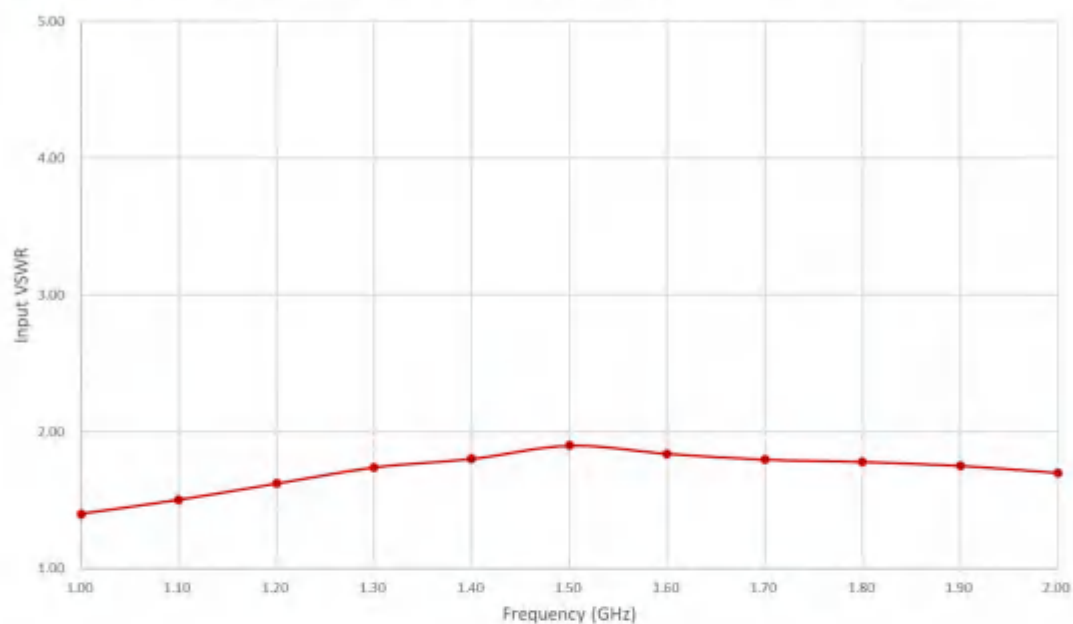


Figure 3: RFPA-0100-0200-50-1 Input VSWR

P.A.E

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

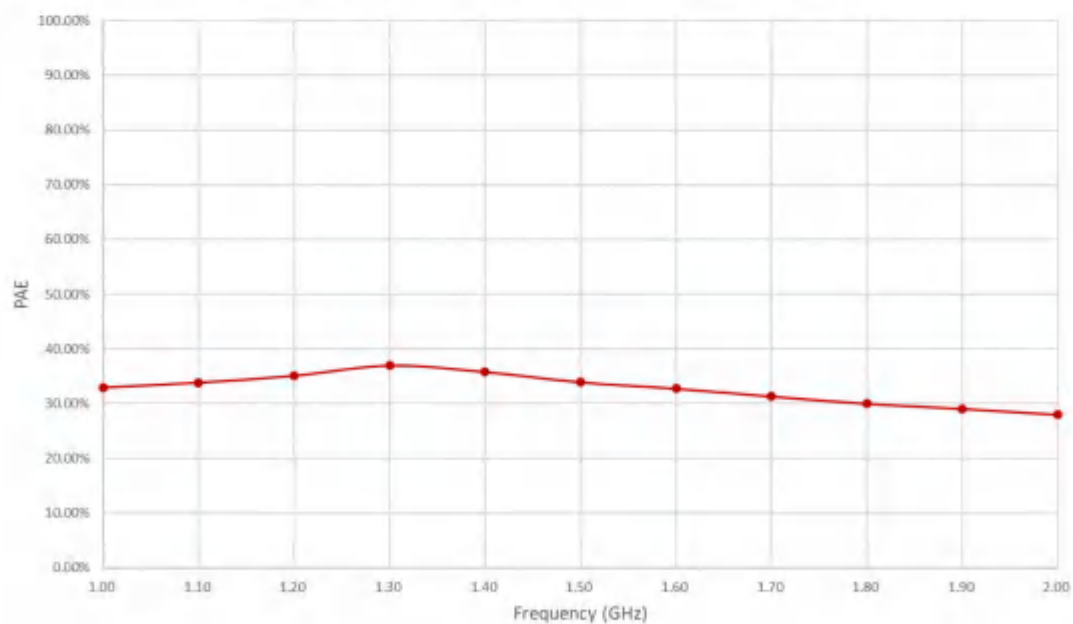


Figure 4: RFPA-0100-0200-50-1 P.A.E

Absolute Maximum Ratings

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

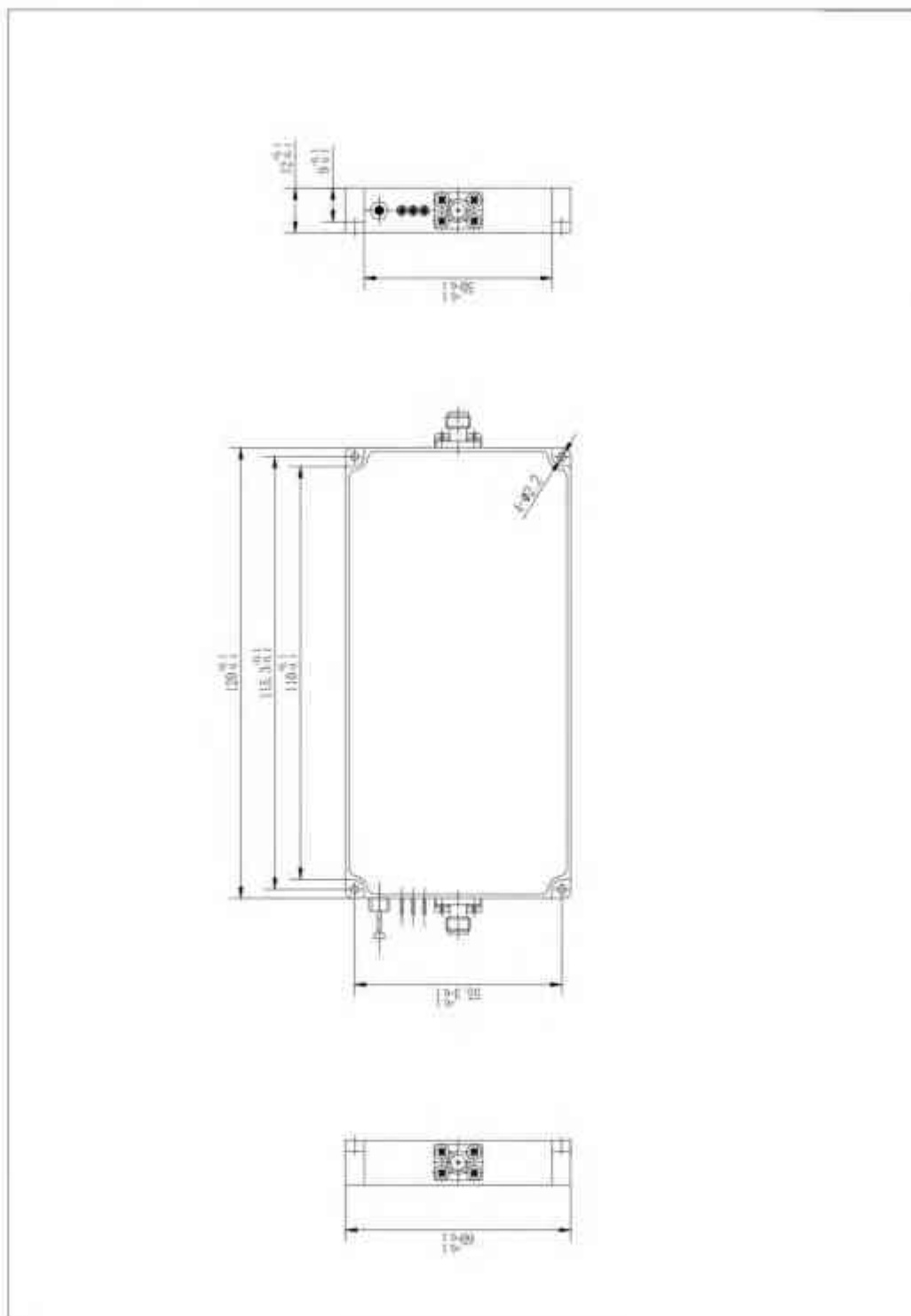
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

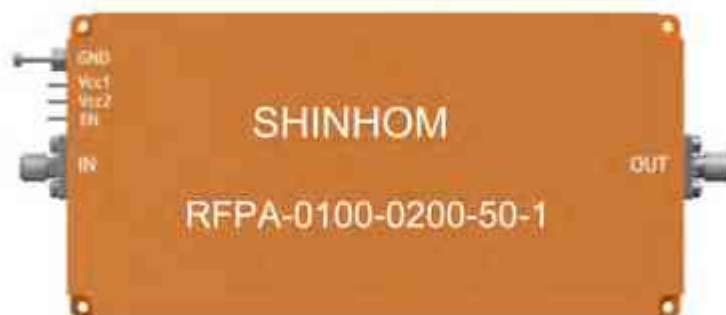
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

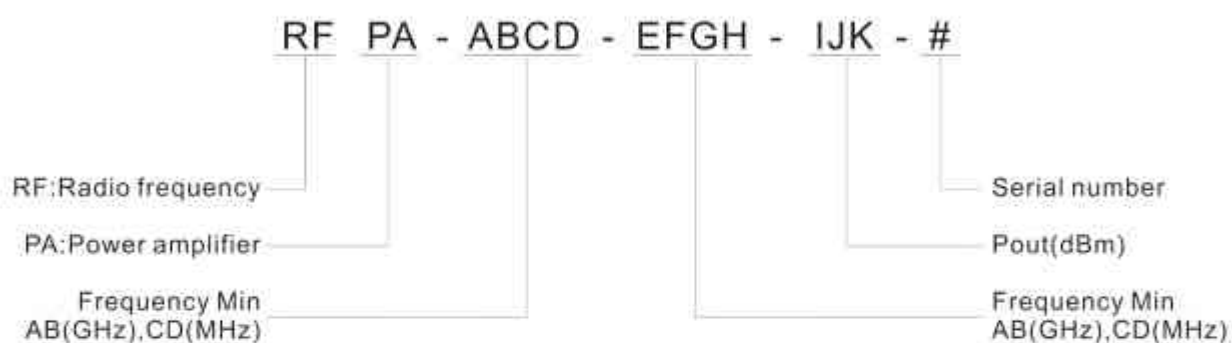


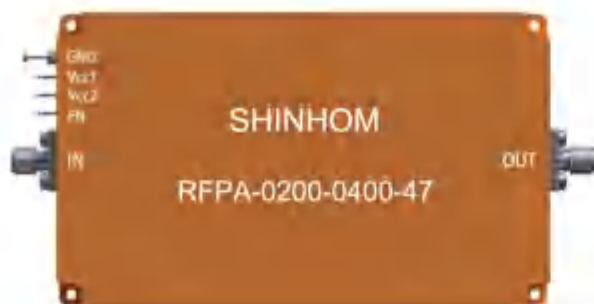


Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 4.0 GHz.
- Typical values: Pout 47 dBm, Gain 42 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0200-0400-47

The RFP-0200-0400-47 is a High Power Amplifier providing an output power of 47 dBm and a gain of 42 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	Typ	Max	
Frequency	2.0	-	4.0	GHz
Output Power		47		dBm
Small Signal Gain	40.5	42	43.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

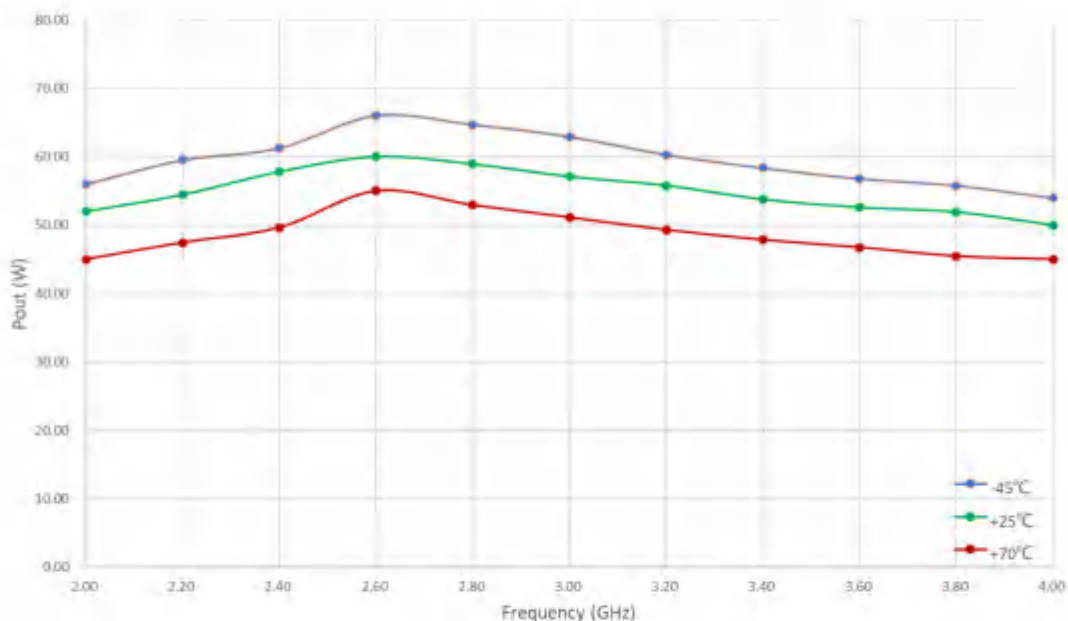


Figure 1: RFP-0200-0400-47 Psat

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.

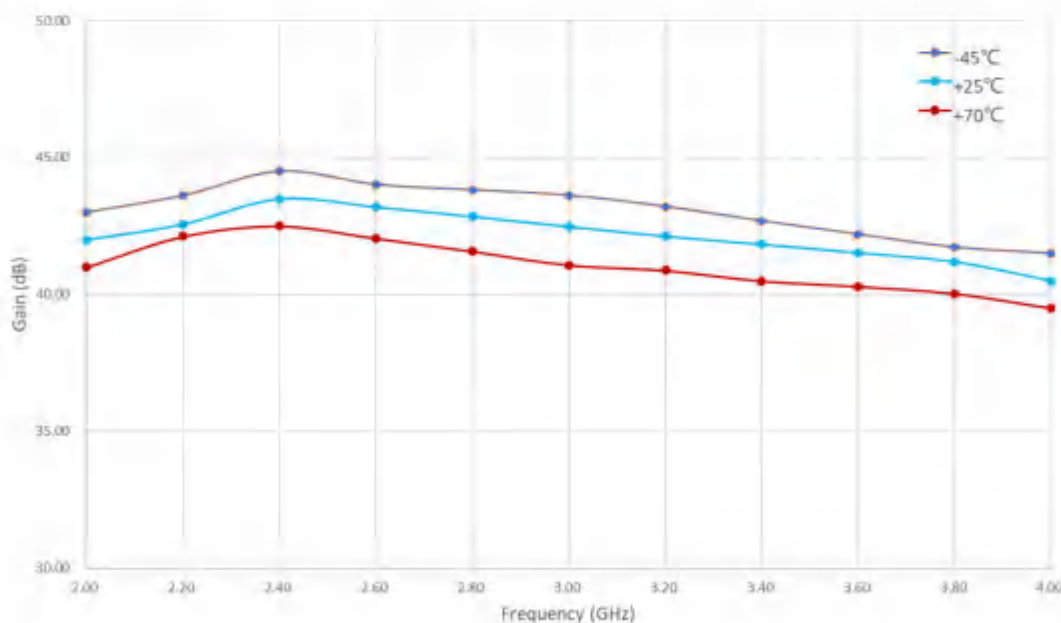


Figure 2: RFP-0200-0400-47 Small Signal Gain Vs Temperature

Input VSWR

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

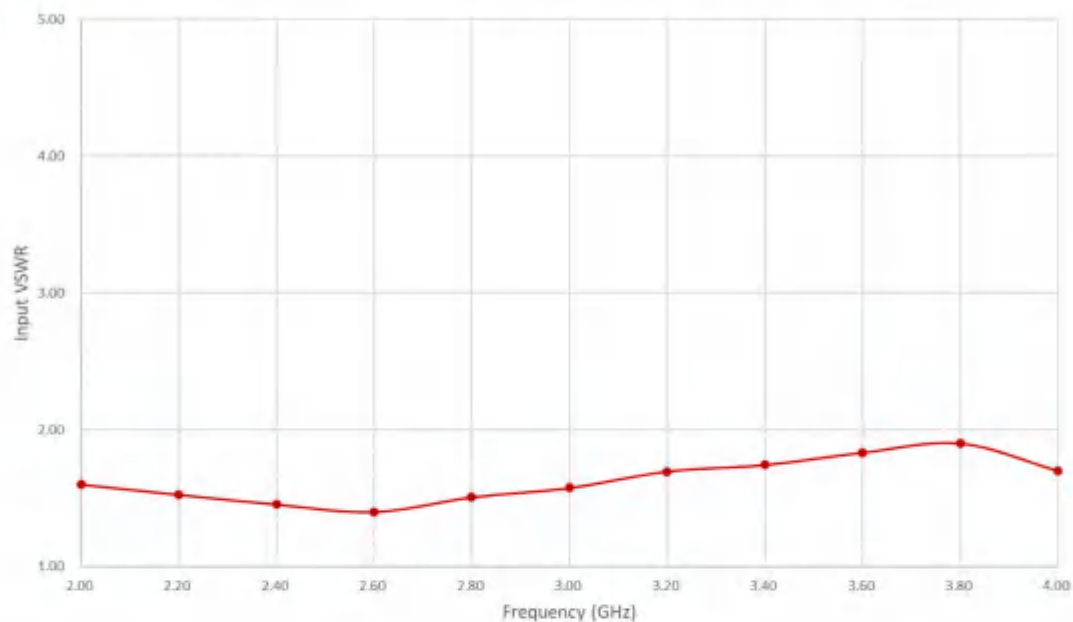


Figure 3: RFPA-0200-0400-47 Input VSWR

P.A.E

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

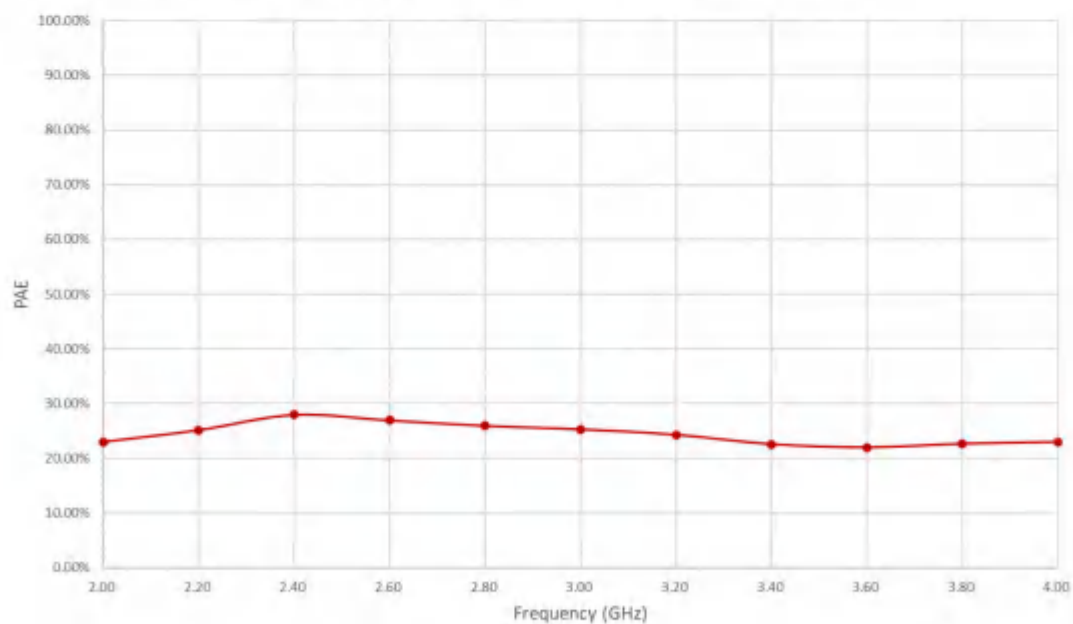


Figure 4: RFPA-0200-0400-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

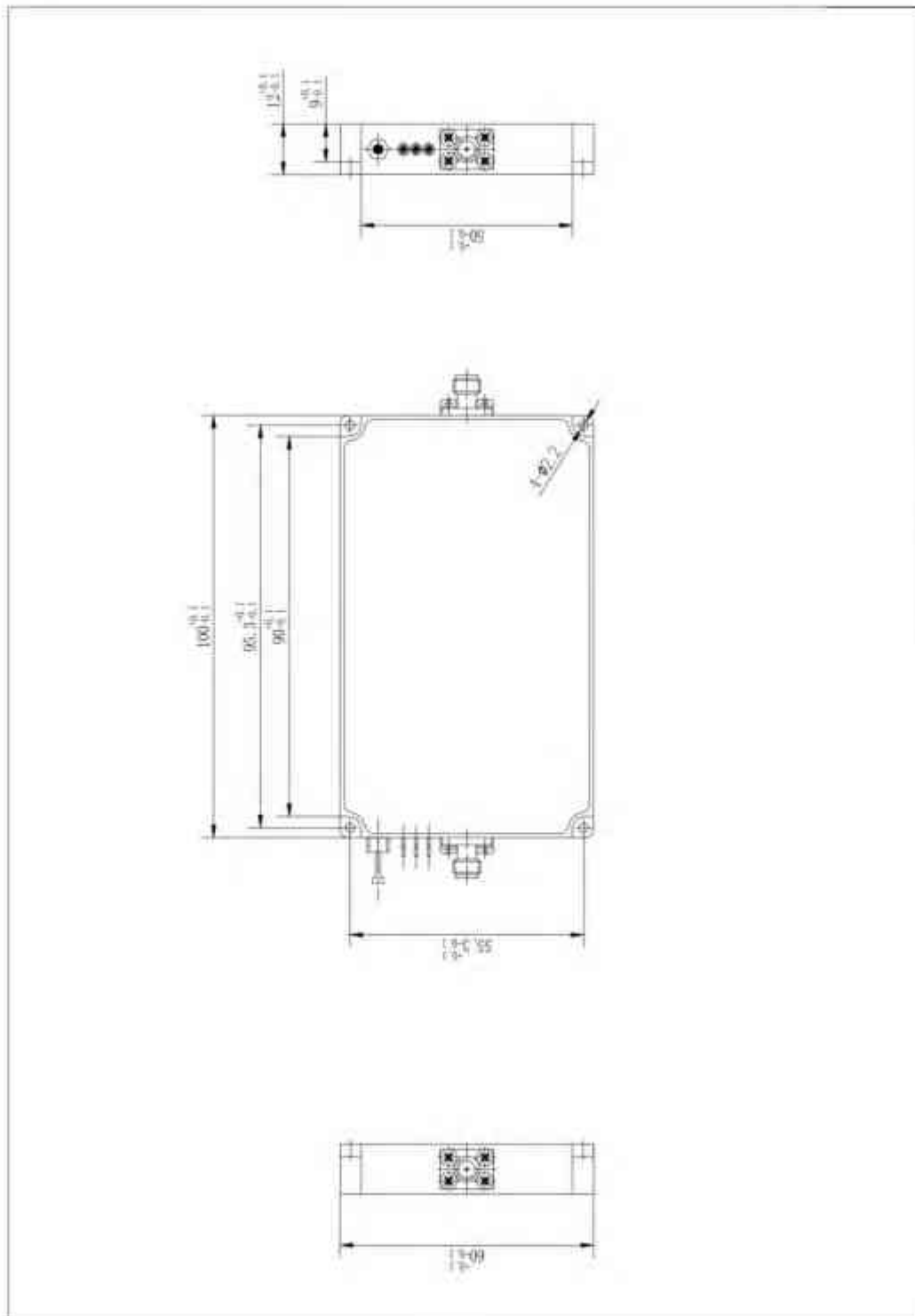
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

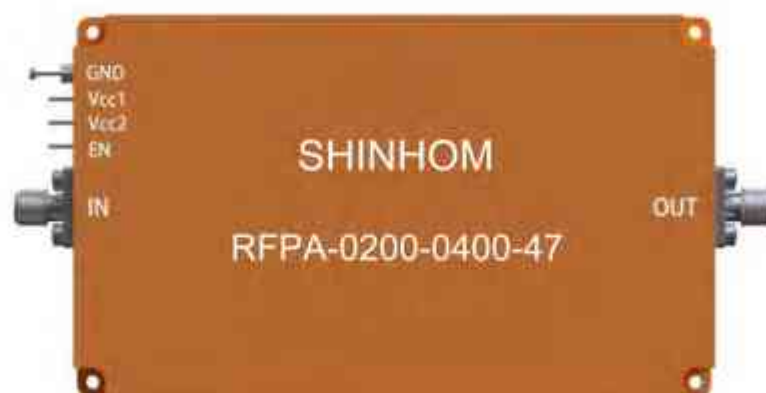
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

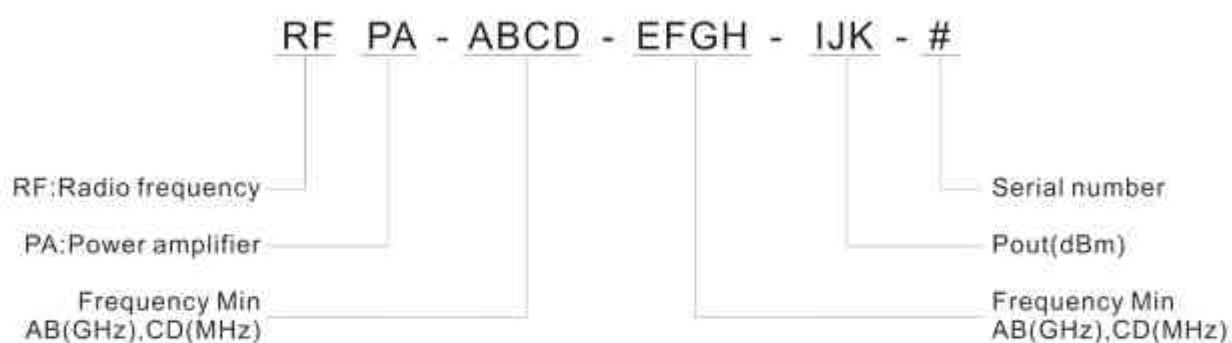




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 4.0 GHz.
- Typical values: Pout 50 dBm, Gain 40 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0200-0400-50

The RFP-0200-0400-50 is a High Power Amplifier providing an output power of 50 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	Typ	Max	
Frequency	2.0	-	4.0	GHz
Output Power		50		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		32		V
RF Connectors	SMA Female IN/OUT+			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

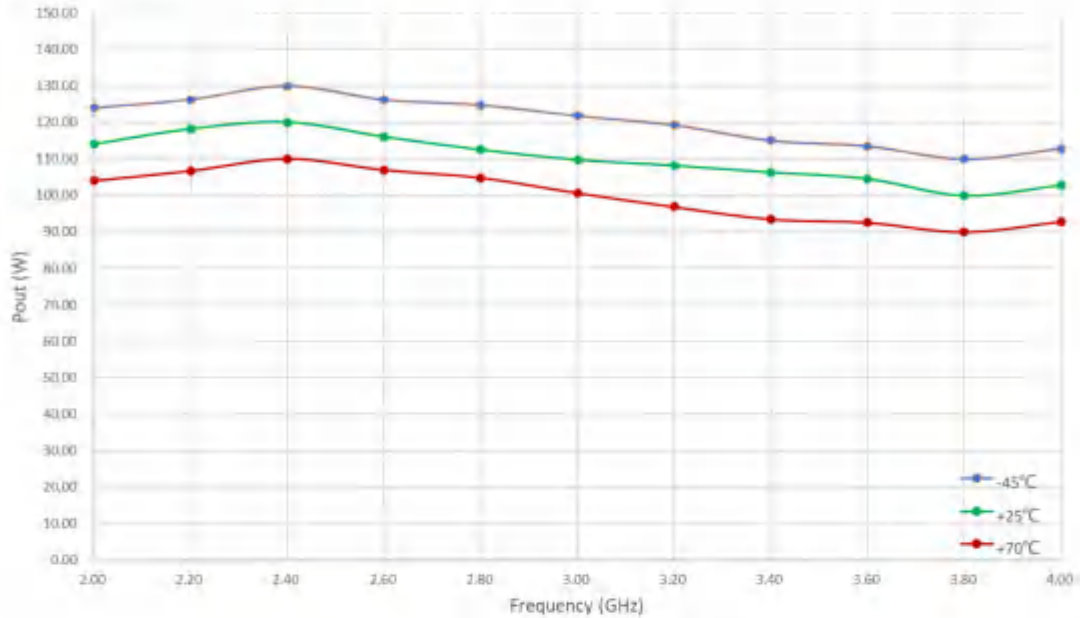


Figure 1: RFP-0200-0400-50 Psat

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.

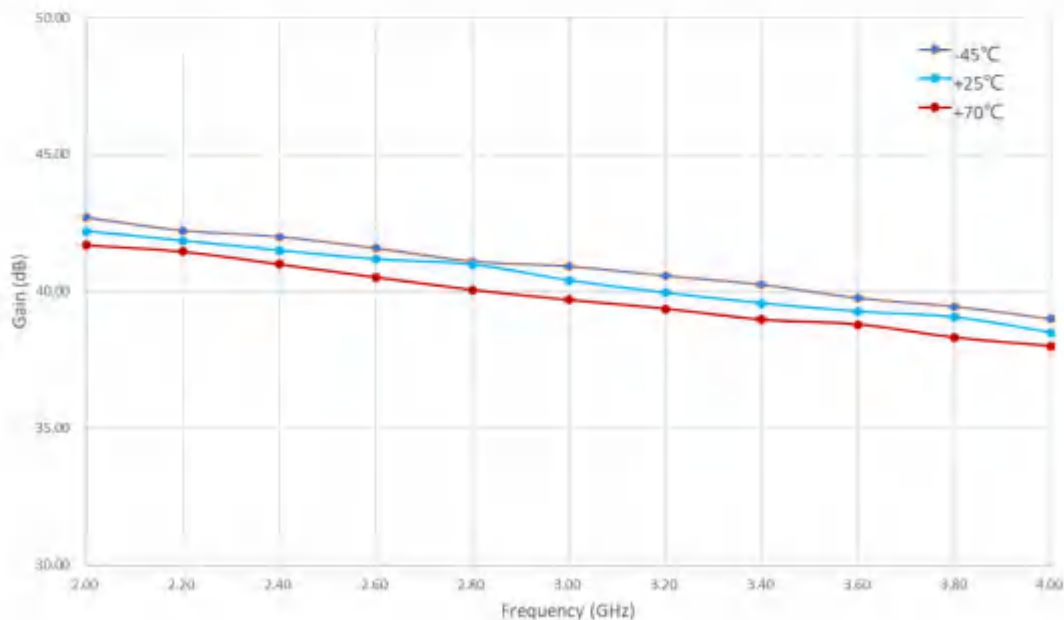


Figure 2: RFP-0200-0400-50 Small Signal Gain Vs Temperature

Input VSWR

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

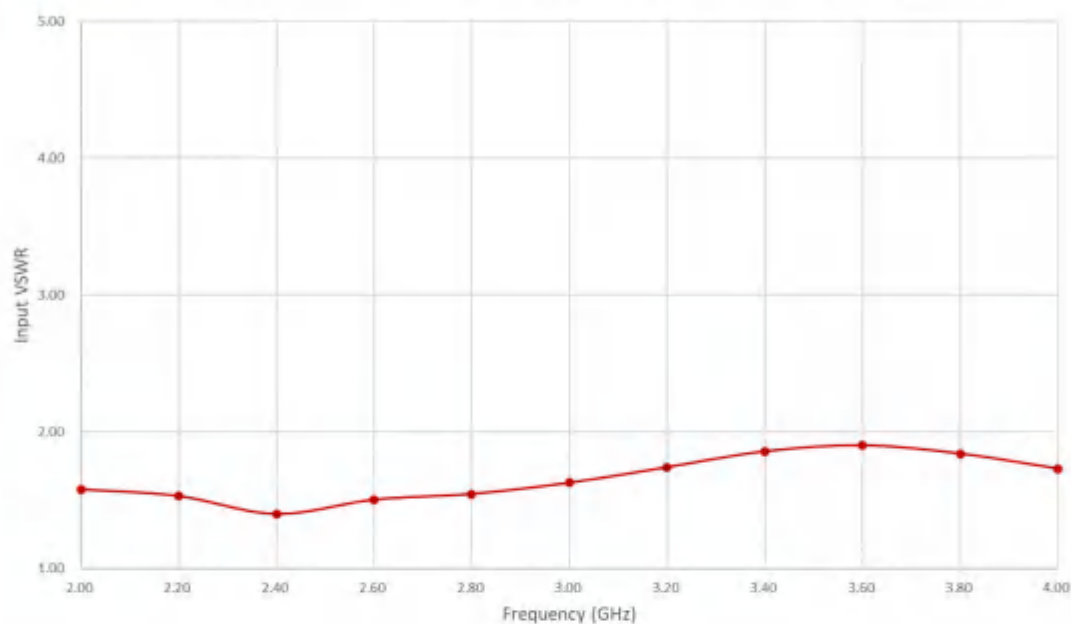


Figure 3: RFPA-0200-0400-50 Input VSWR

P.A.E

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

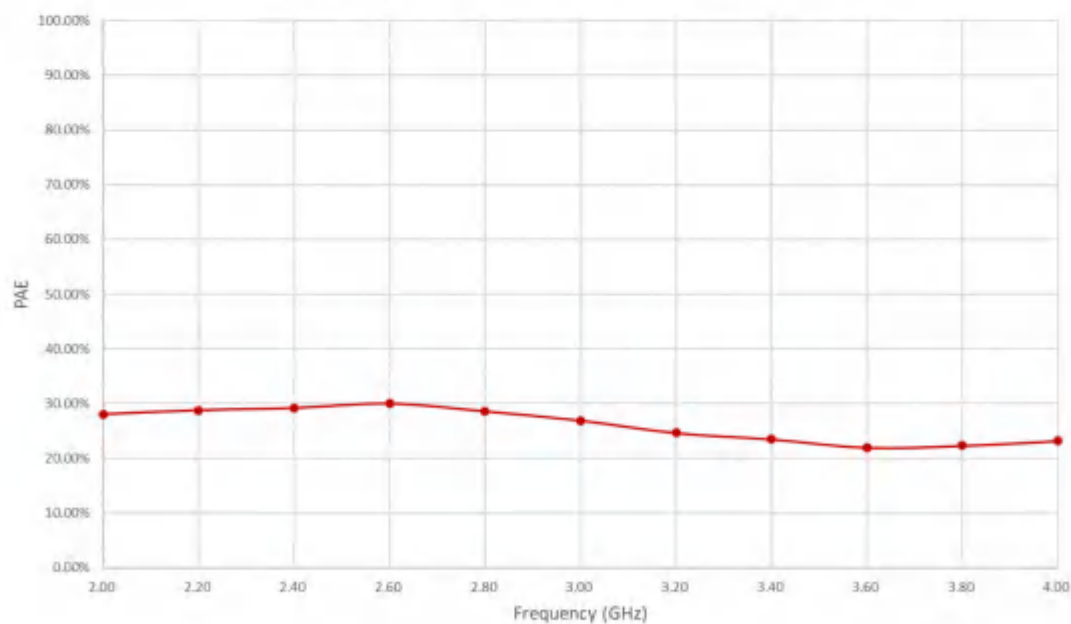


Figure 4: RFPA-0200-0400-50 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+36 VDC
Maximum Input Power (CW)	+20 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

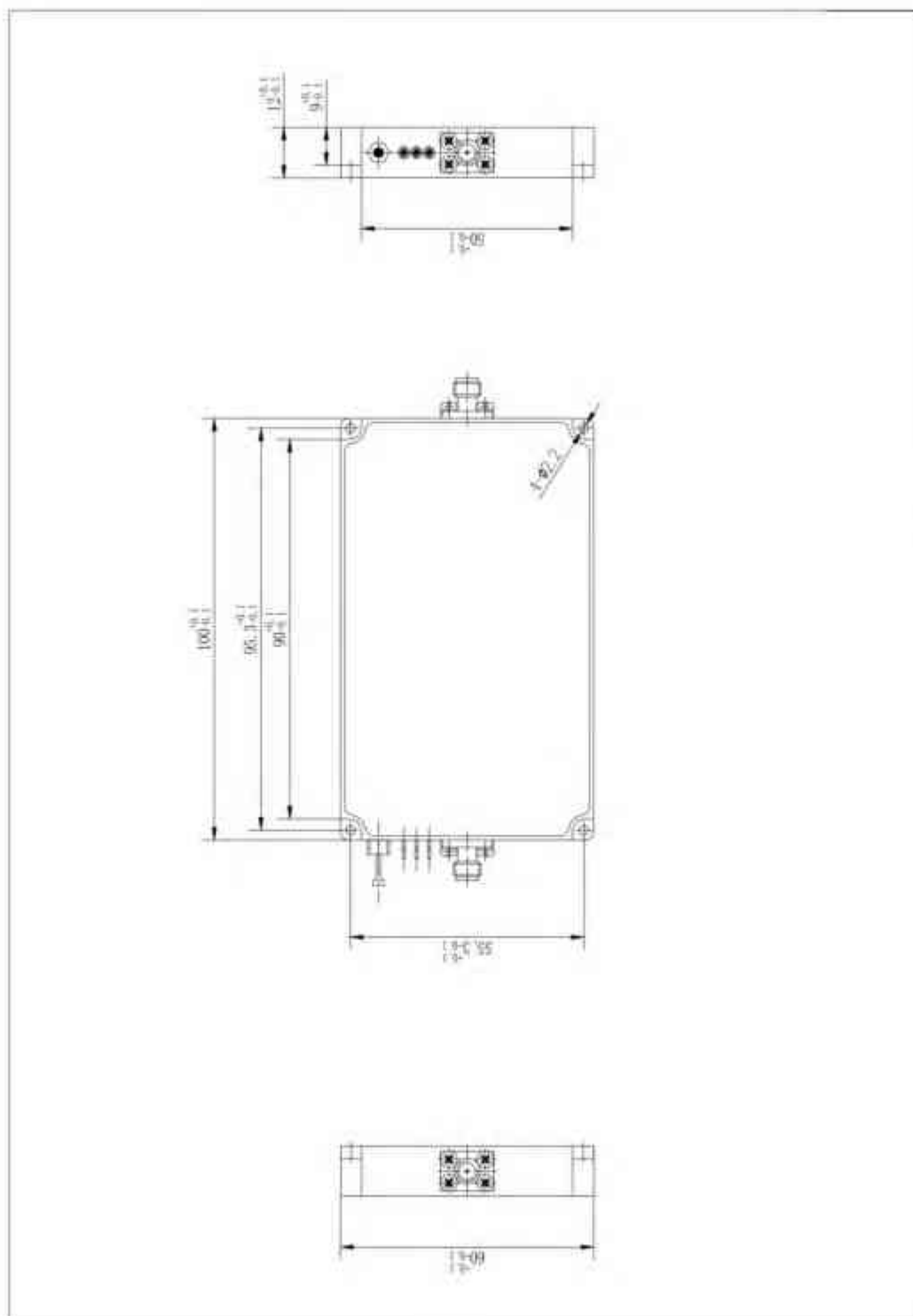
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

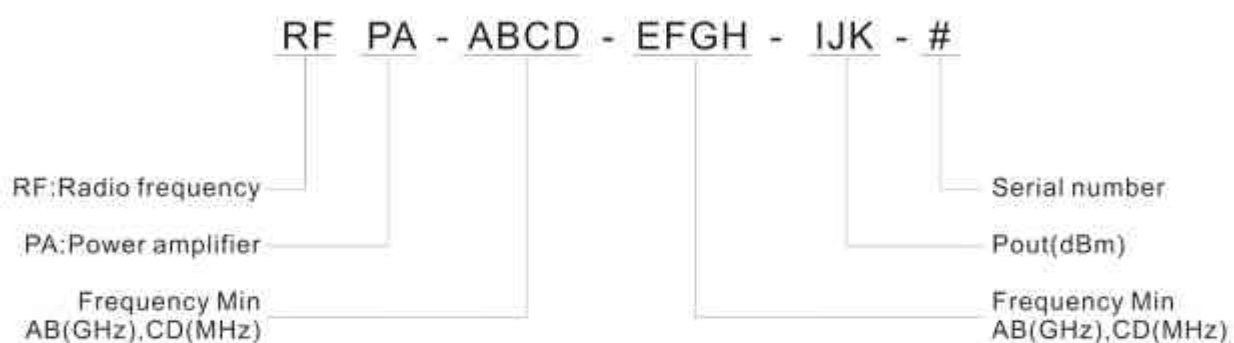




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +32V
Vcc2	DC Supply +32V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 6.0 GHz.
- Typical values: Pout 43 dBm, Gain 41 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 2.0 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0200-0600-43

The RFP-0200-0600-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 41 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	Typ	Max	
Frequency	2.0	-	6.0	GHz
Output Power		43		dBm
Small Signal Gain	39.0	41	43.0	dB
Gain Flatness	-	± 2.0	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

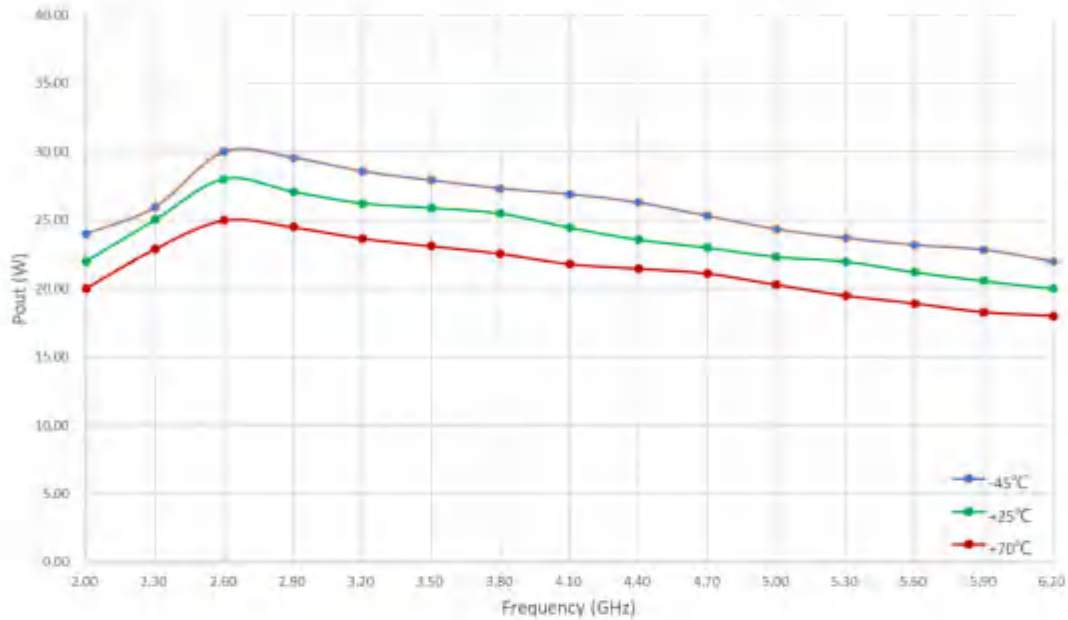


Figure 1: RFP-0200-0600-43 Psat

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.

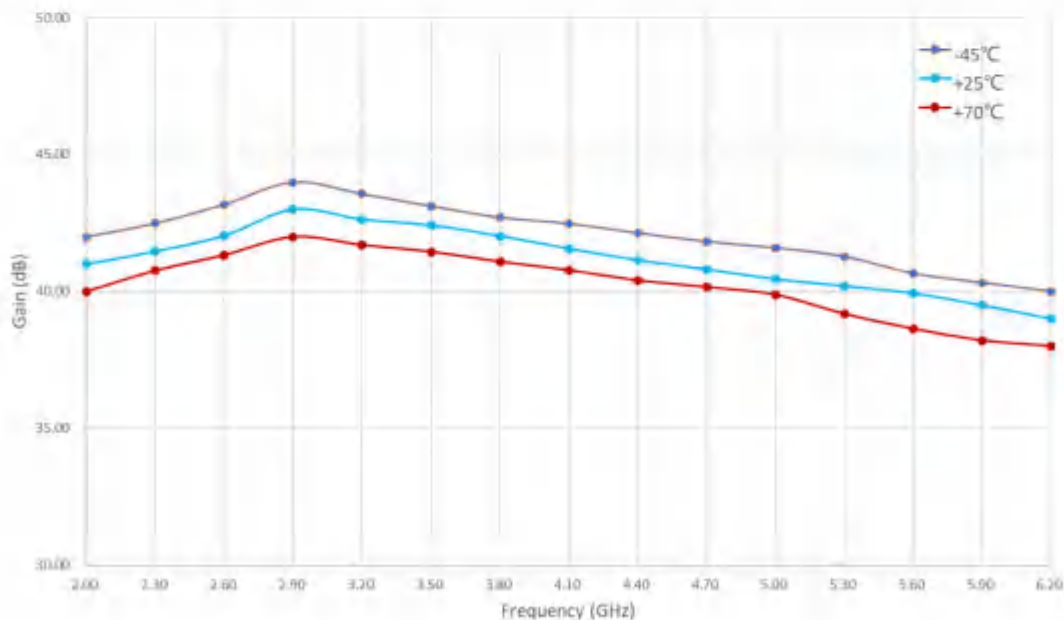


Figure 2: RFP-0200-0600-43 Small Signal Gain Vs Temperature

Input VSWR

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

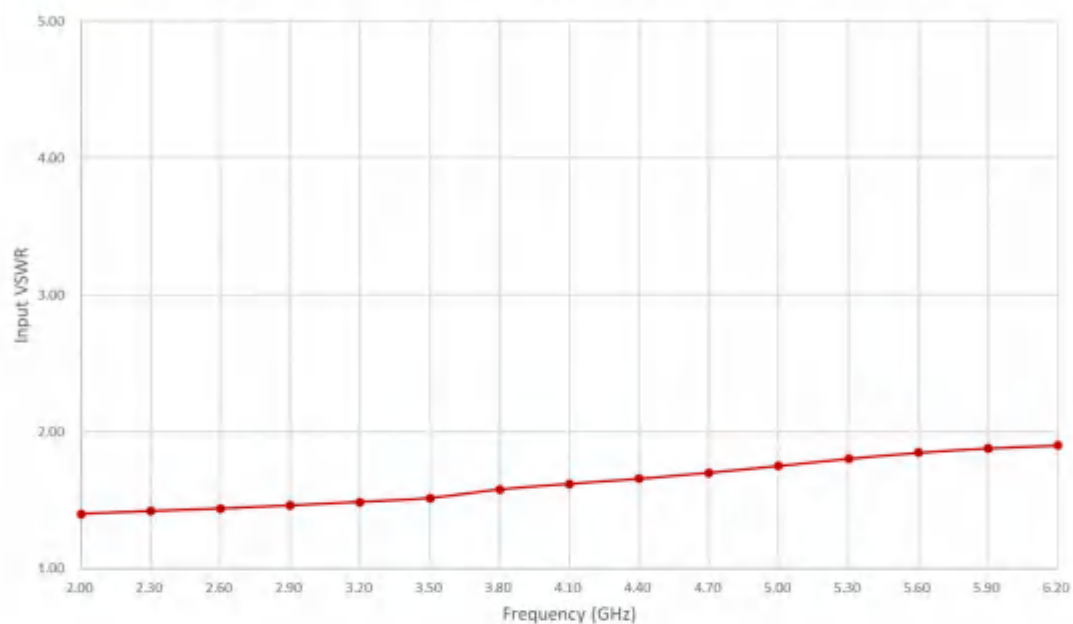


Figure 3: RFPA-0200-0600-43 Input VSWR

P.A.E

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

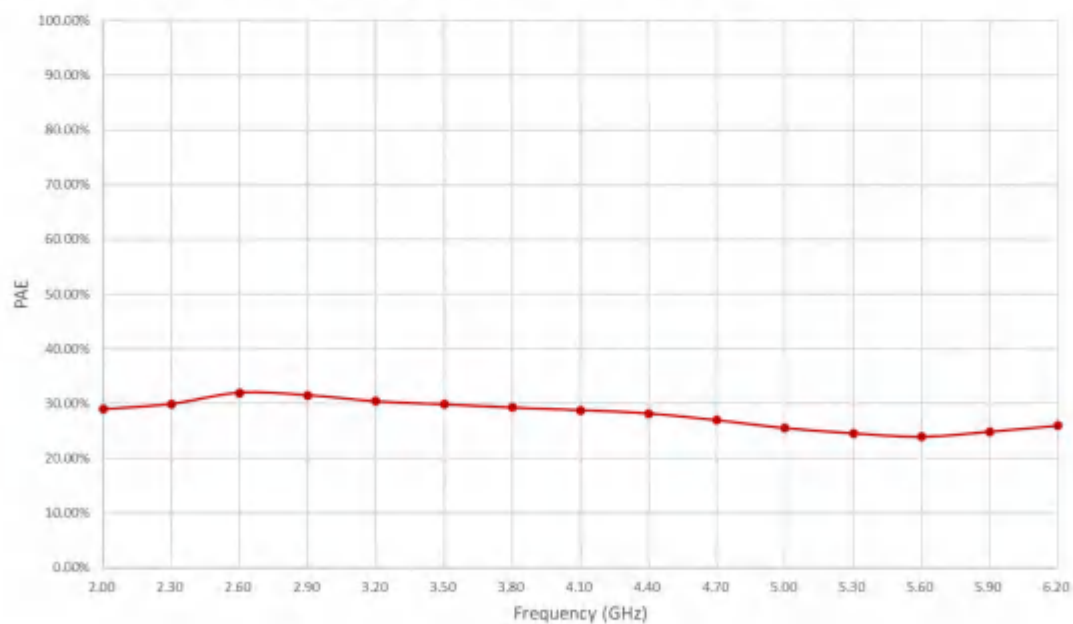


Figure 4: RFPA-0200-0600-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

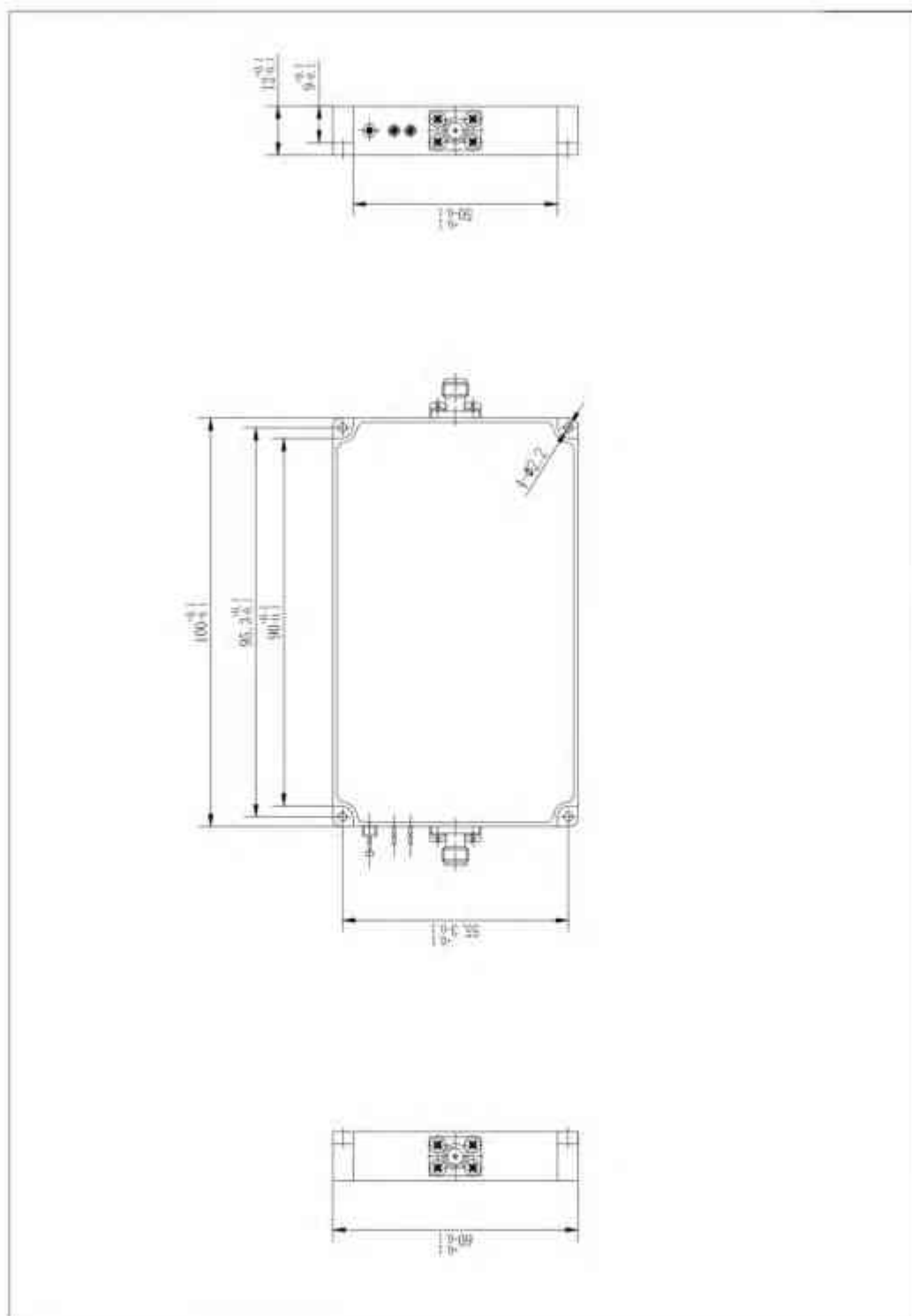
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

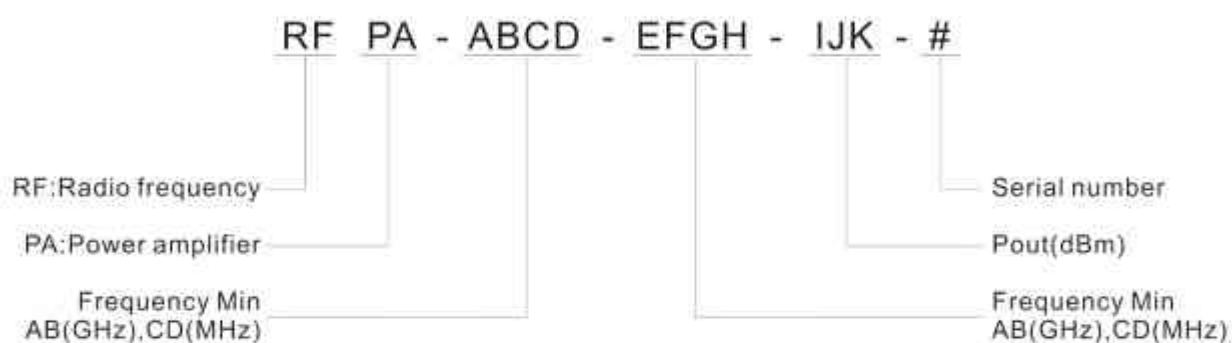




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 6.2 GHz.
- Typical values: Pout 46 dBm, Gain 38 dB
- Power Added Efficiency: 20%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0200-0620-46

The RFPA-0200-0620-46 is a High Power Amplifier providing an output power of 46 dBm and a gain of 38 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	Typ	Max	
Frequency	2.0	-	6.2	GHz
Output Power		46		dBm
Small Signal Gain	35.5	38	40.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

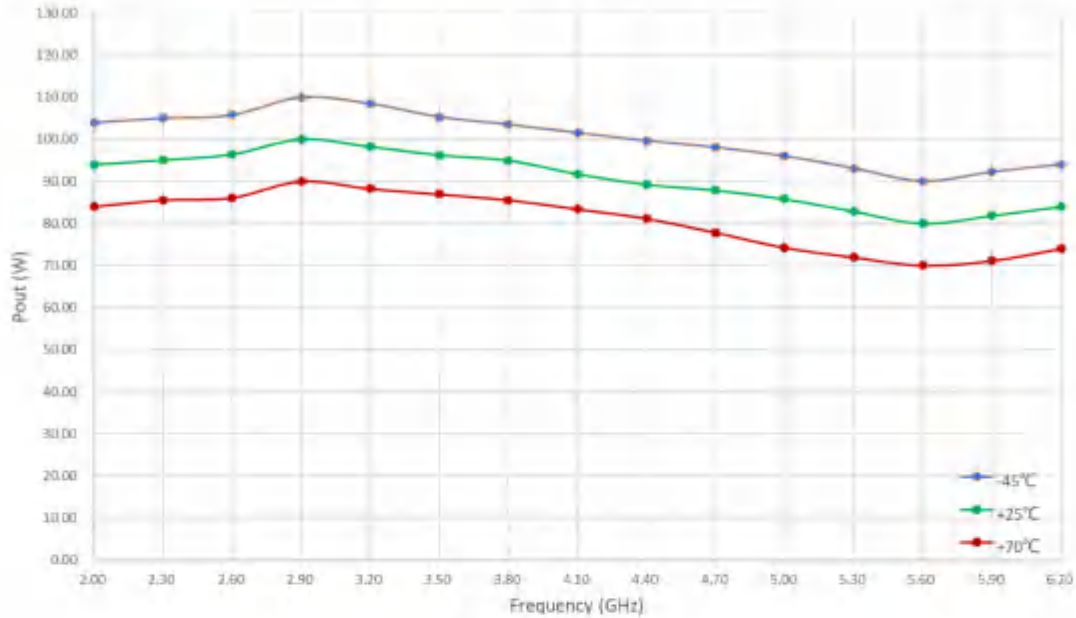


Figure 1: RFP-0200-0620-46 Psat

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.

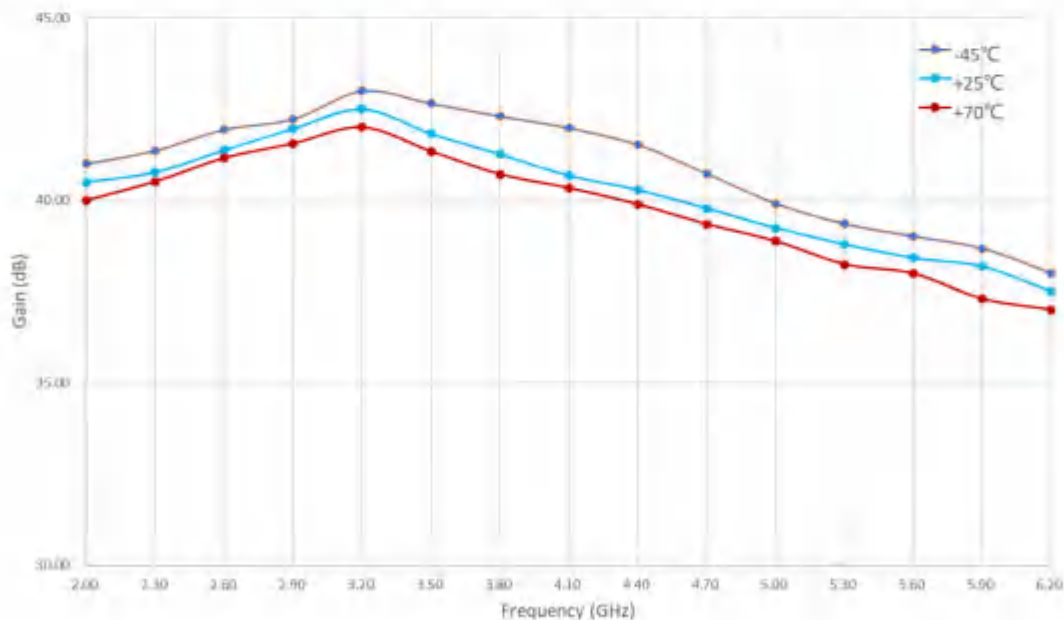


Figure 2: RFP-0200-0620-46 Small Signal Gain Vs Temperature

Input VSWR

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

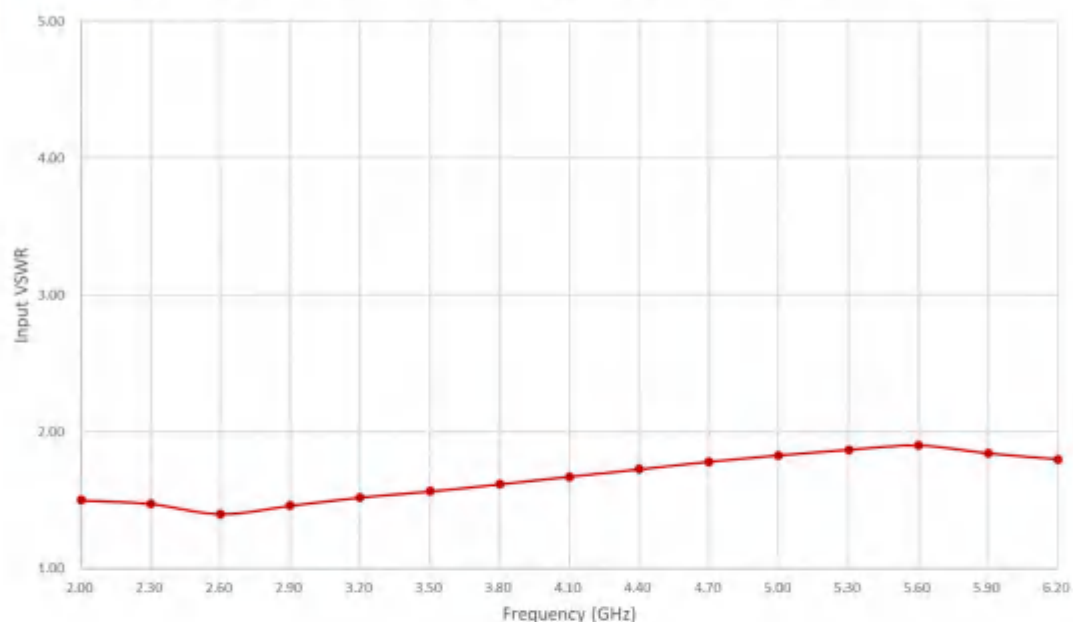


Figure 3: RFPA-0200-0620-46 Input VSWR

P.A.E

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

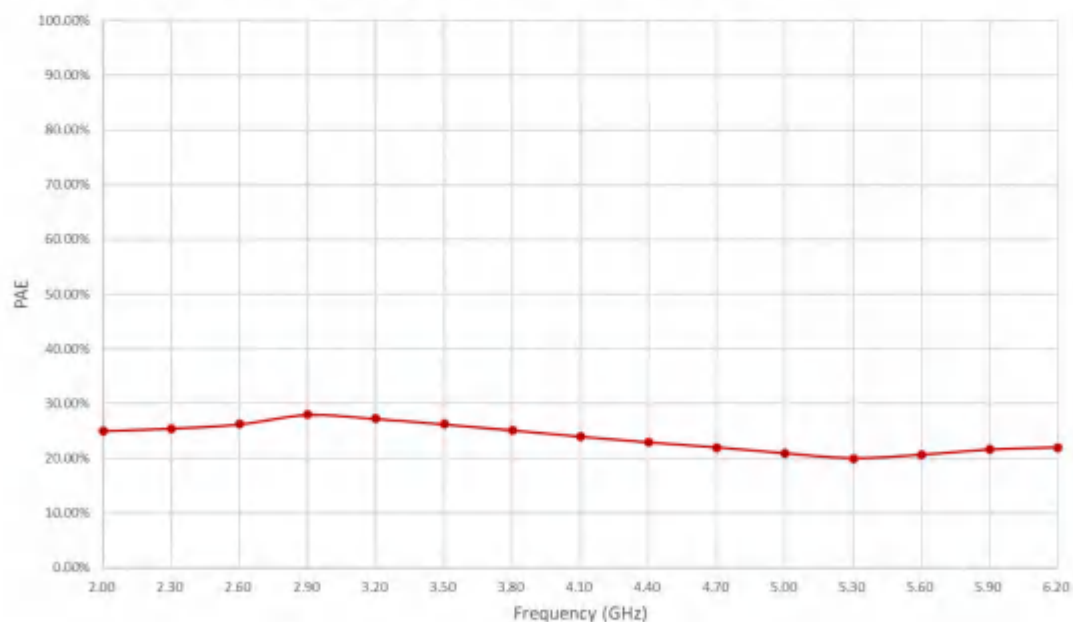


Figure 4: RFPA-0200-0620-46 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

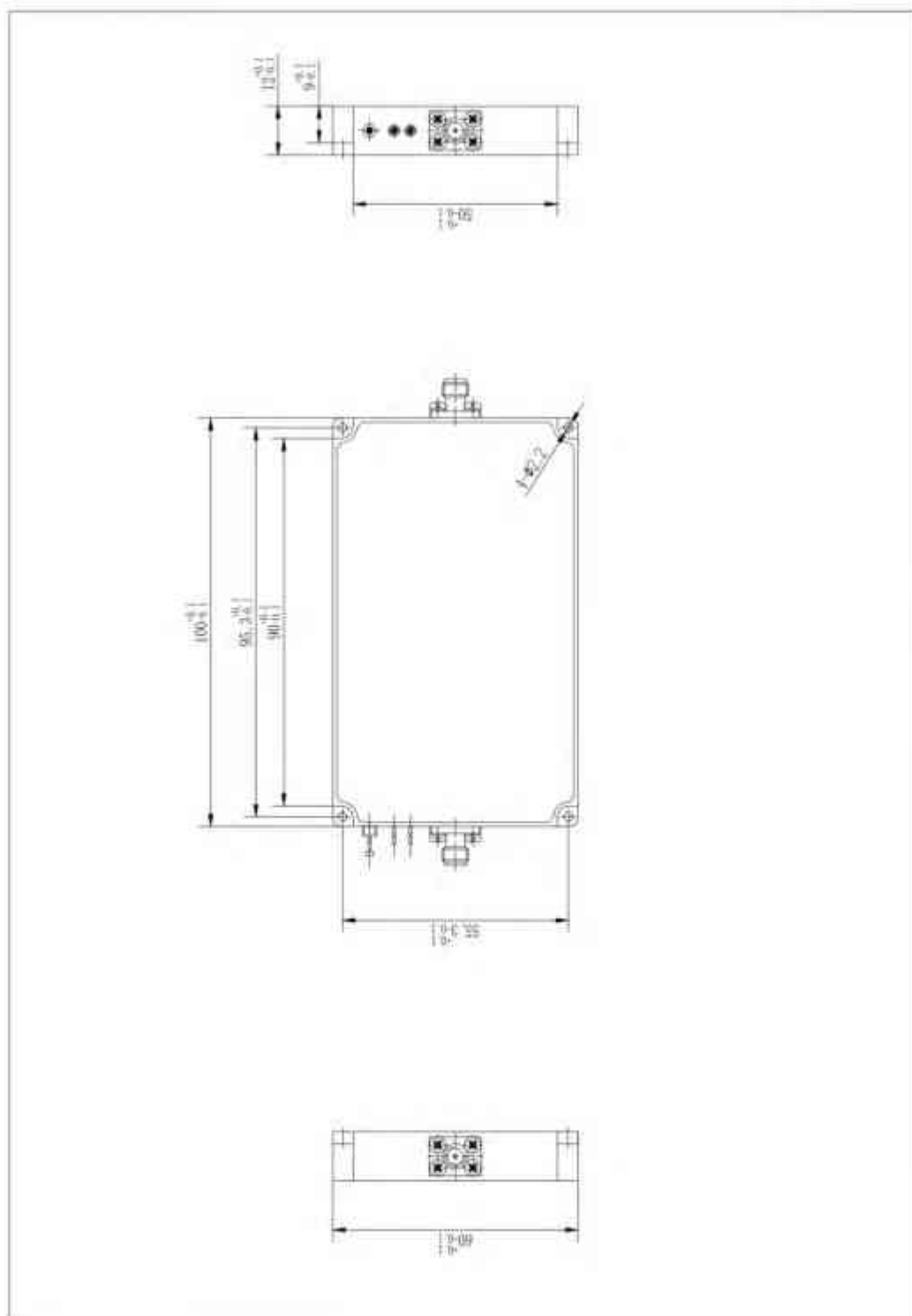
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

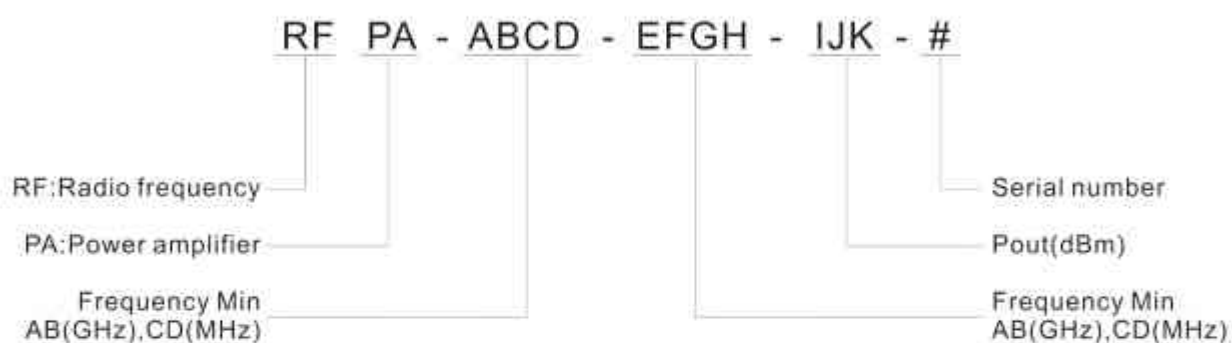


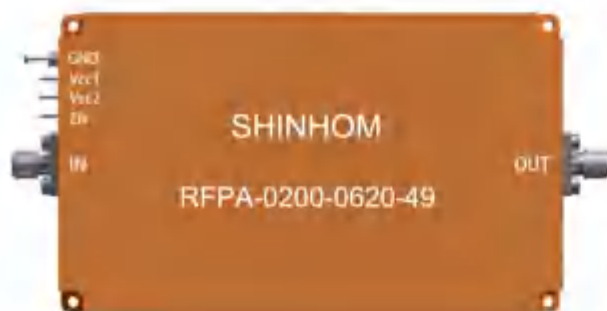


Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 6.2 GHz.
- Typical values: Pout 49 dBm, Gain 40 dB
- Power Added Efficiency: 20%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0200-0620-49

The RFP-0200-0620-49 is a High Power Amplifier providing an output power of 49 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	Typ	Max	
Frequency	2.0	-	6.2	GHz
Output Power		49		dBm
Small Signal Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

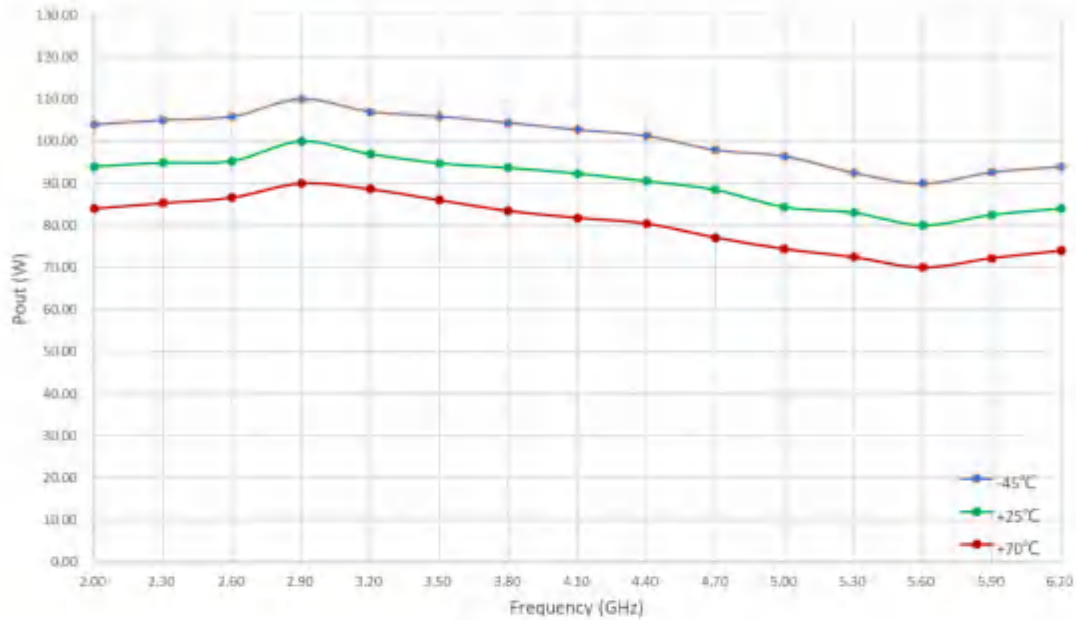


Figure 1: RFPA-0200-0620-49 Psat

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.

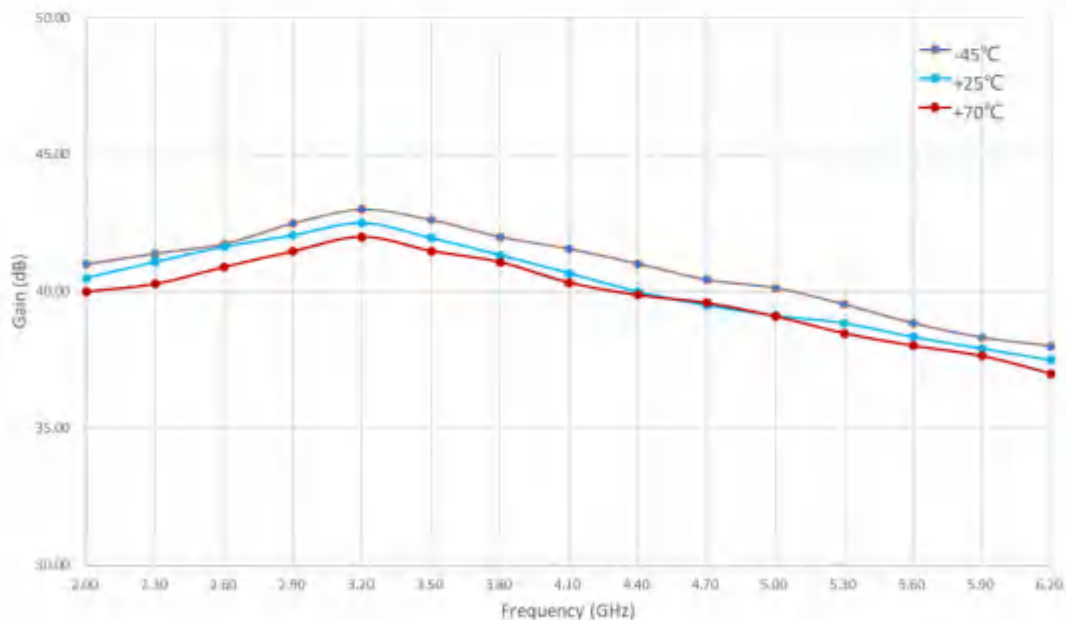


Figure 2: RFPA-0200-0620-49 Small Signal Gain Vs Temperature

Input VSWR

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

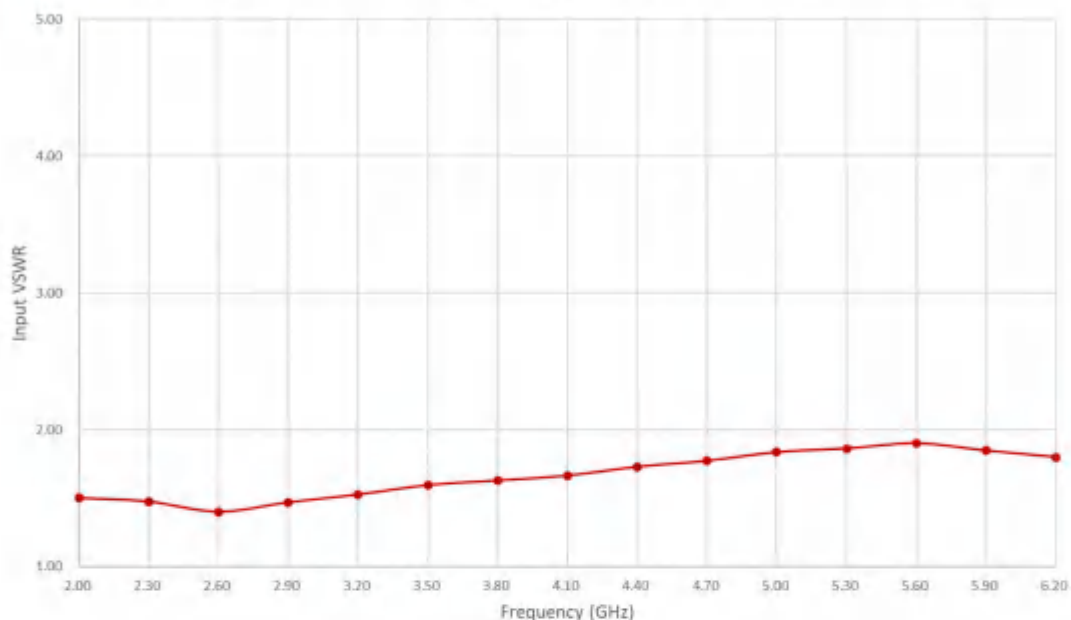


Figure 3: RFPA-0200-0620-49 Input VSWR

P.A.E

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

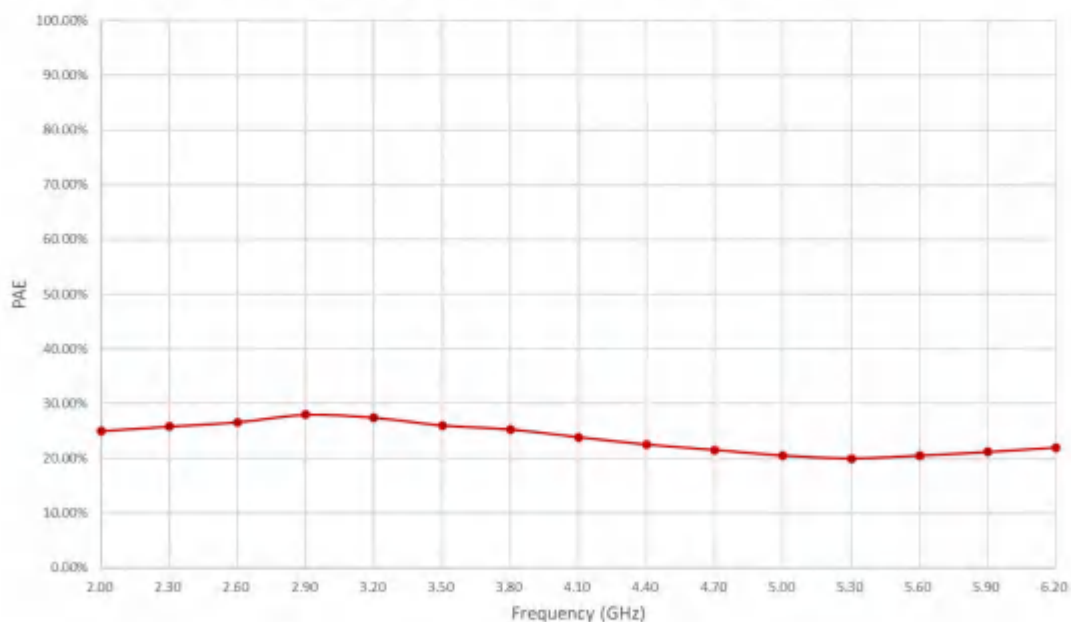


Figure 4: RFPA-0200-0620-49 P.A.E

Absolute Maximum Ratings

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

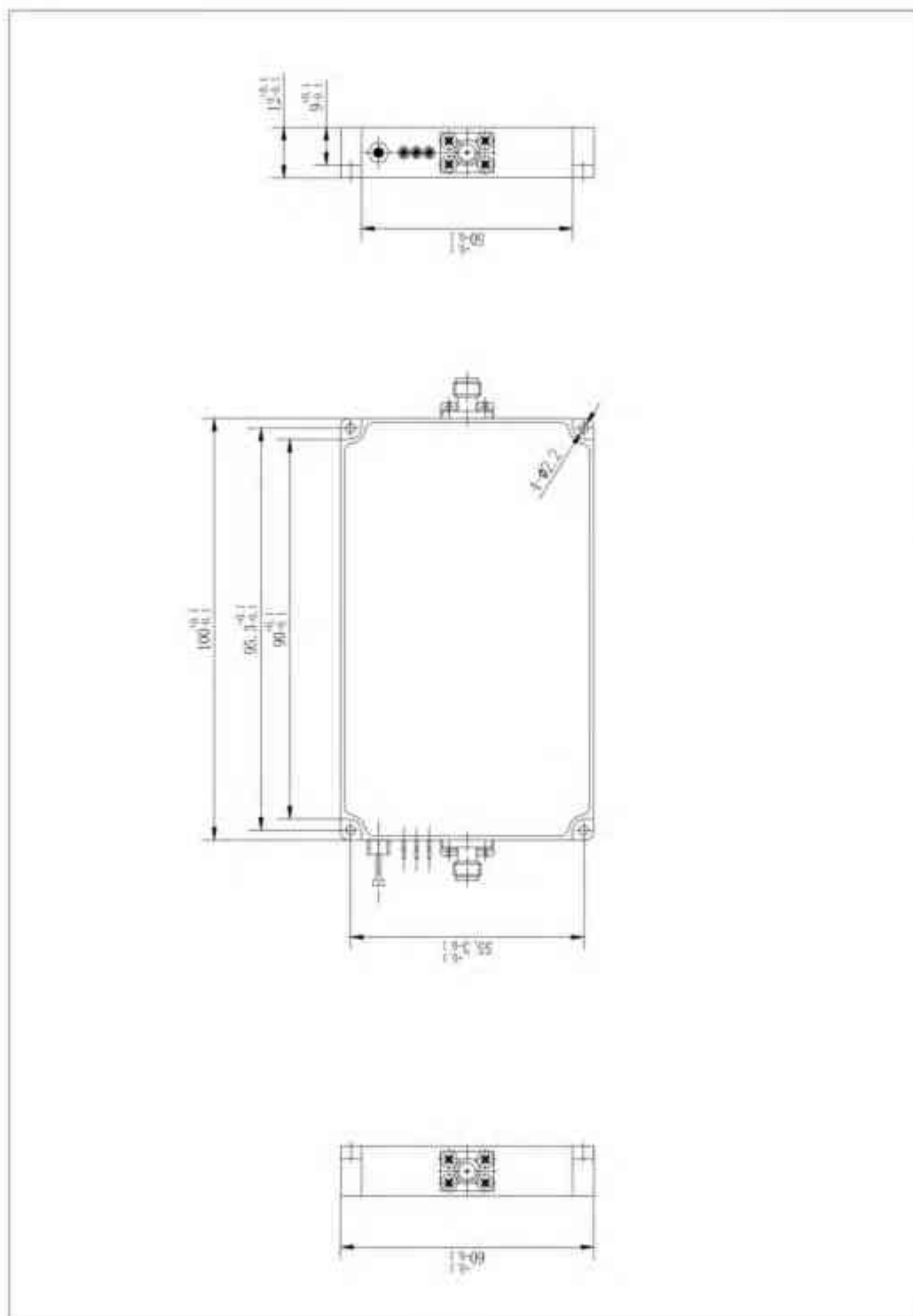
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

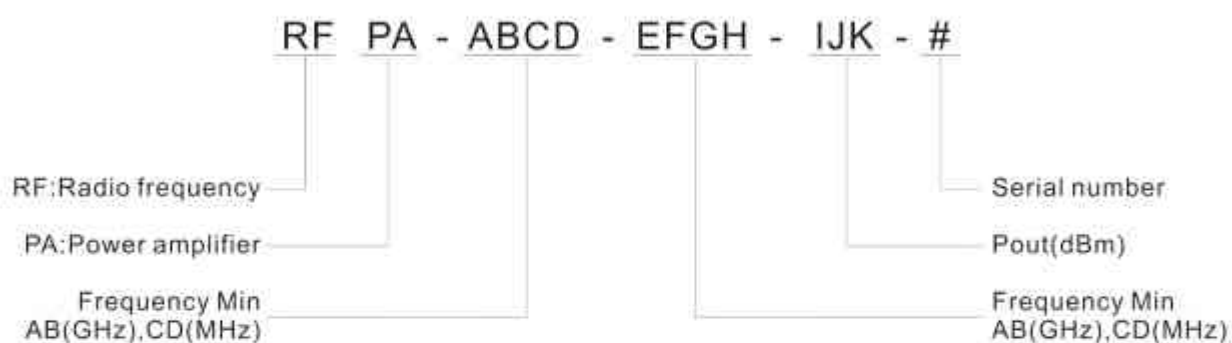




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 18.0 GHz.
- Typical values: Pout 40 dBm, Gain 40 dB
- Power Added Efficiency: 15%
- Gain Flatness ± 3 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFPA-0200-1800-40

The RFPA-0200-1800-40 is a High Power Amplifier providing an output power of 40 dBm and a gain of 40 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	2.0	-	18.0	GHz
Output Power		40		dBm
Small Signal Gain	37	40	43	dB
Gain Flatness	-	± 3	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT+			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

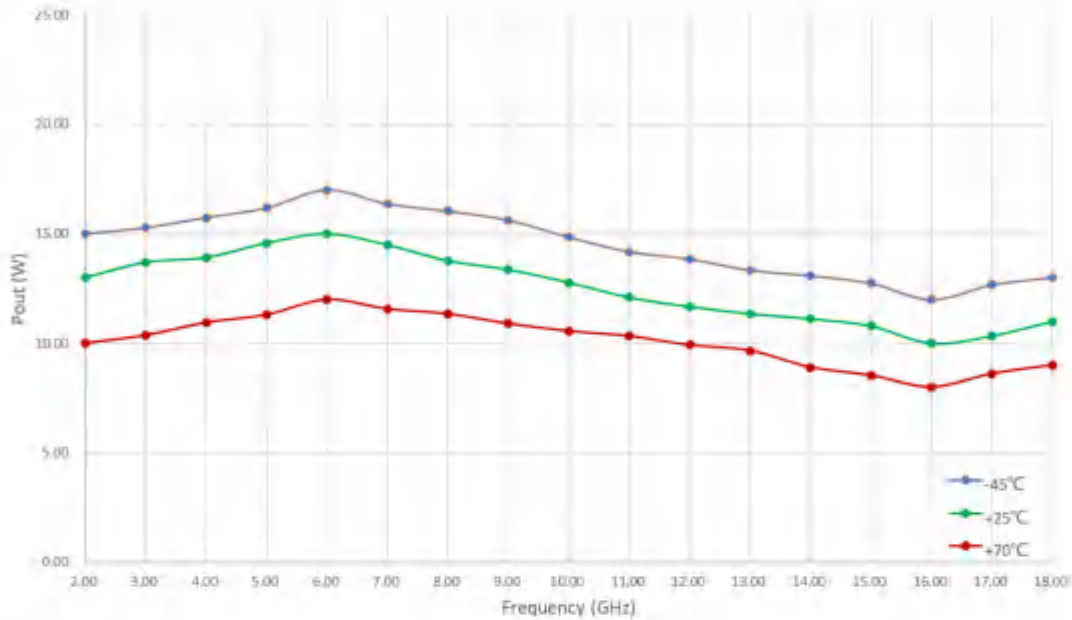


Figure 1: RFP-0200-1800-40 Psat

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.

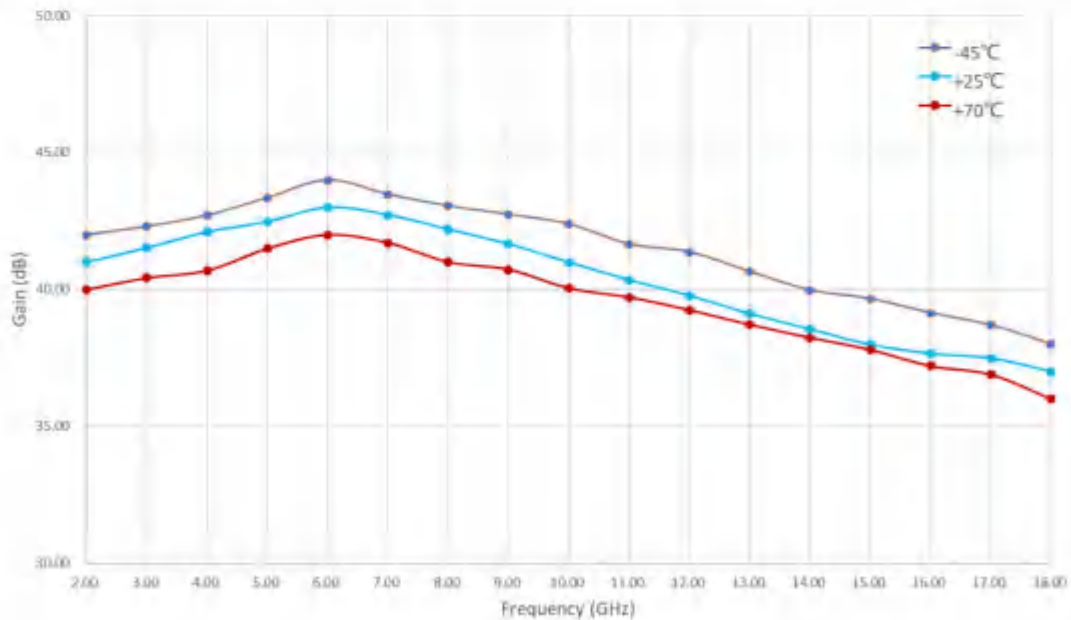


Figure 2: RFP-0200-1800-40 Small Signal Gain Vs Temperature

Input VSWR

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

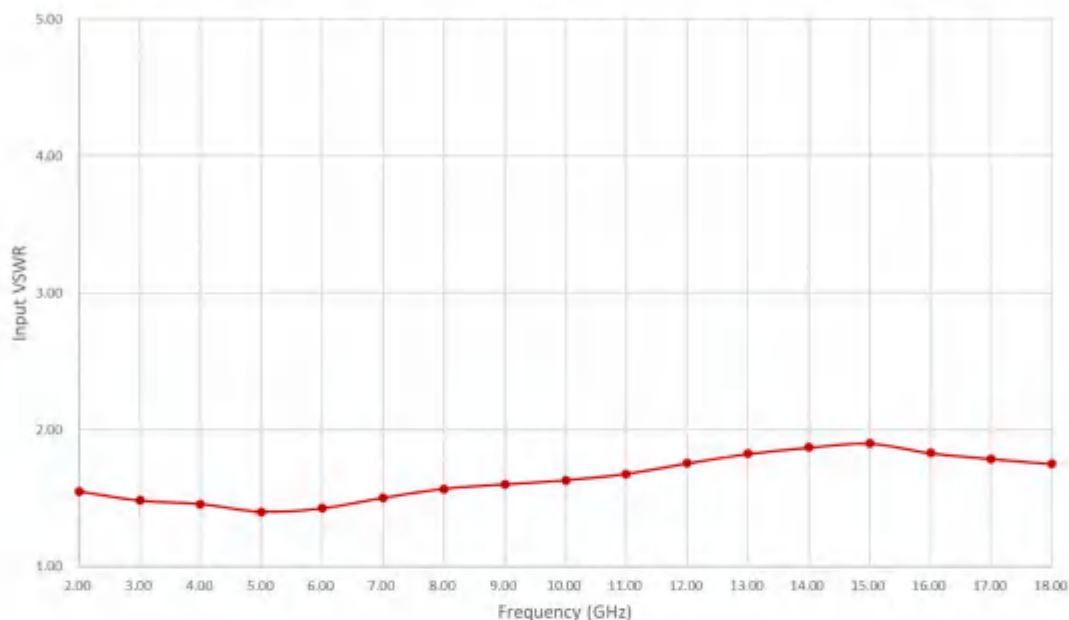


Figure 3: RFPA-0200-1800-40 Input VSWR

P.A.E

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

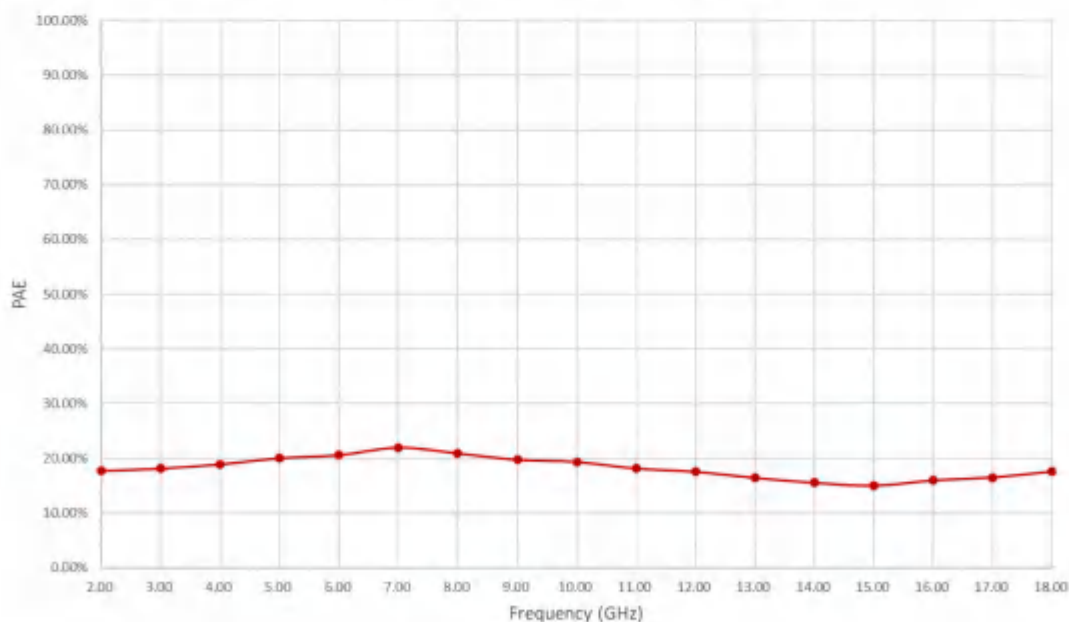


Figure 4: RFPA-0200-1800-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

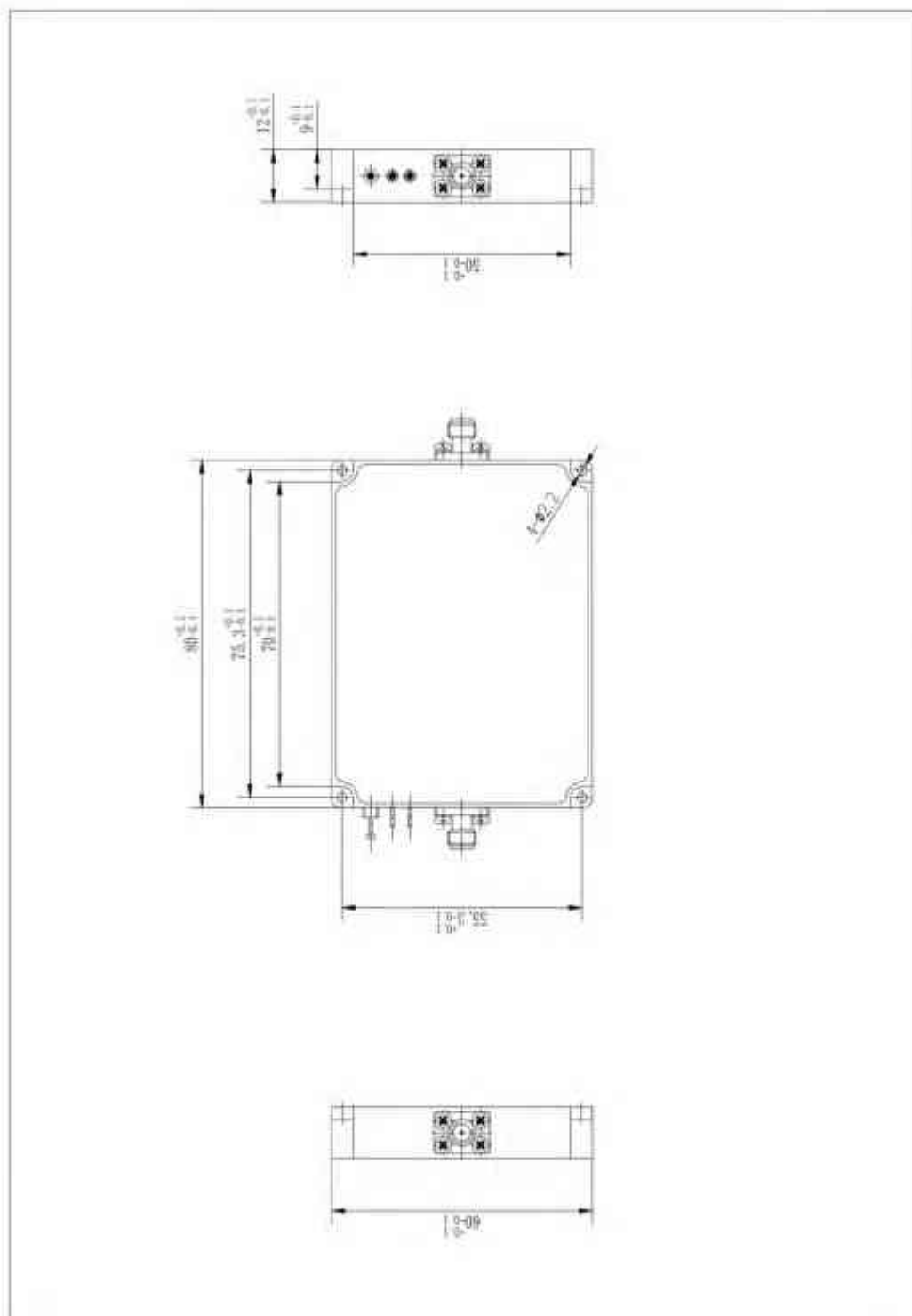
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

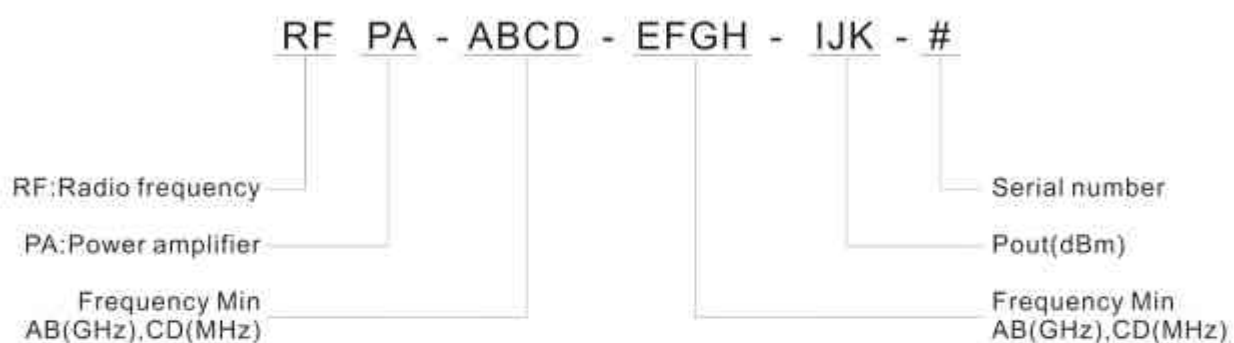




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 4.0 to 8.0 GHz.
- Typical values: Pout 45 dBm, Gain 42 dB
- Power Added Efficiency: 18%
- Gain Flatness ± 2.0 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0400-0800-45

The RFP-0400-0800-45 is a High Power Amplifier providing an output power of 45 dBm and a gain of 42 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	Typ	Max	
Frequency	4.0	-	8.0	GHz
Output Power		45		dBm
Small Signal Gain	42	42	44	dB
Gain Flatness	-	± 2	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

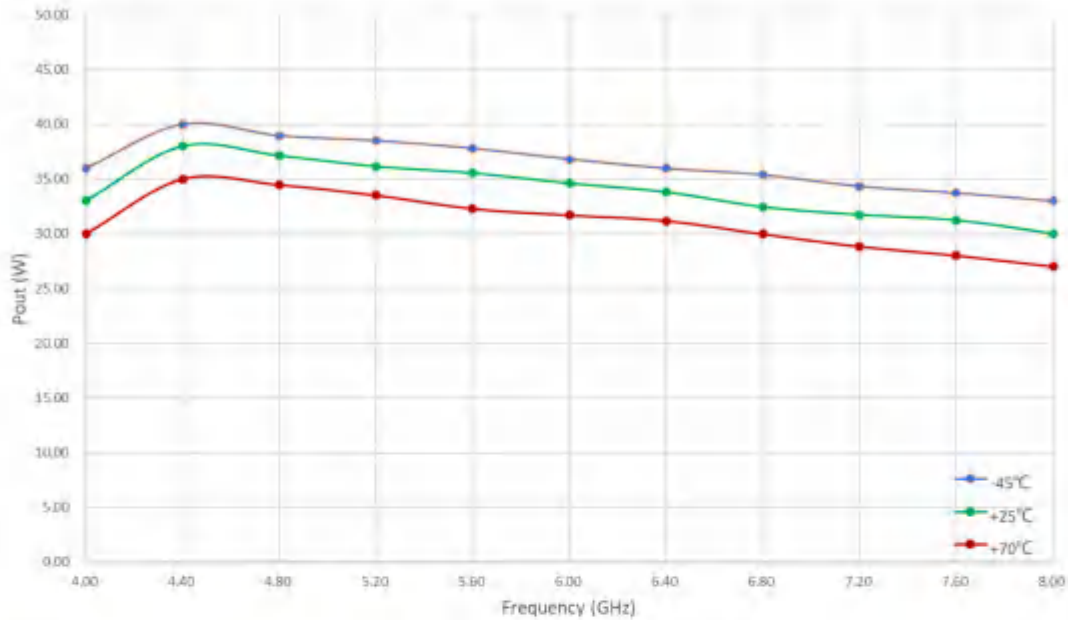


Figure 1: RFP-0400-0800-45 Psat

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.

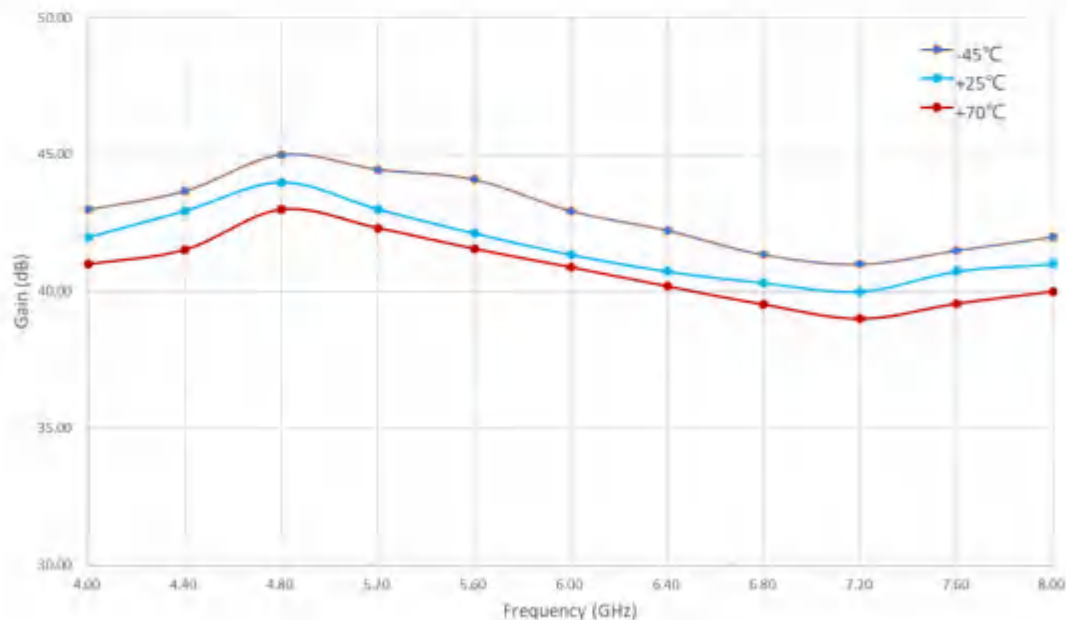


Figure 2: RFP-0400-0800-45 Small Signal Gain Vs Temperature

Input VSWR

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

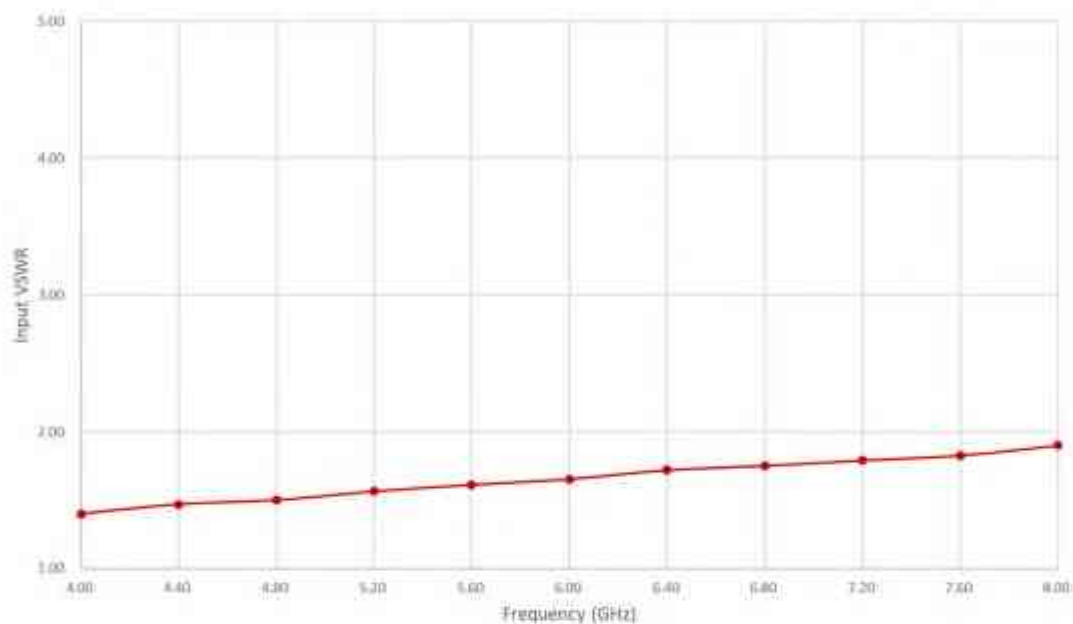


Figure 3: RFPA-0400-0800-45 Input VSWR

P.A.E

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

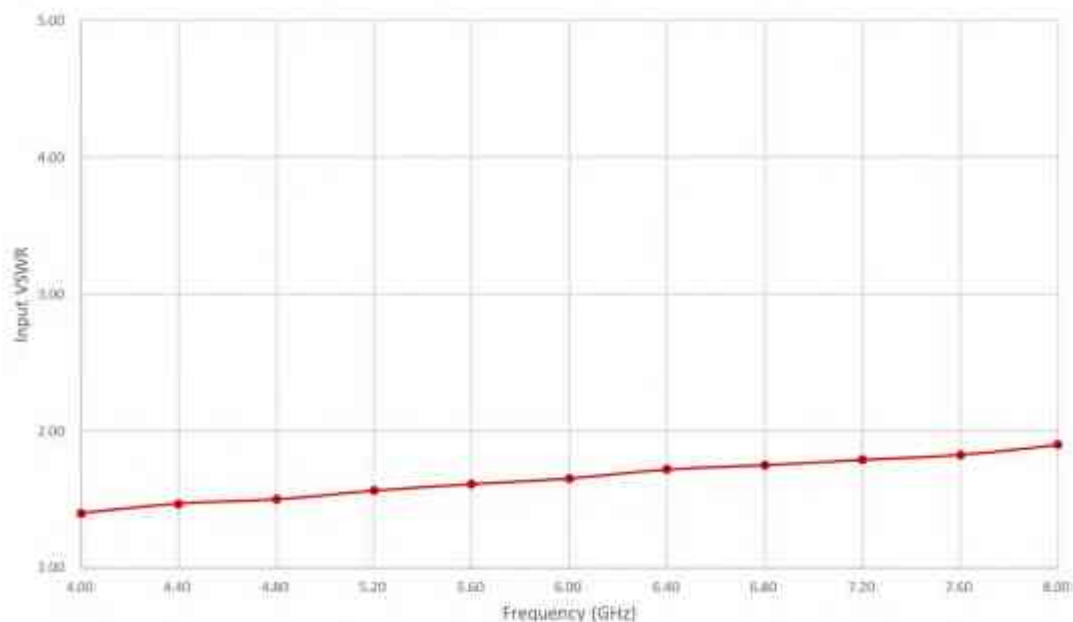


Figure 4: RFPA-0400-0800-45 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

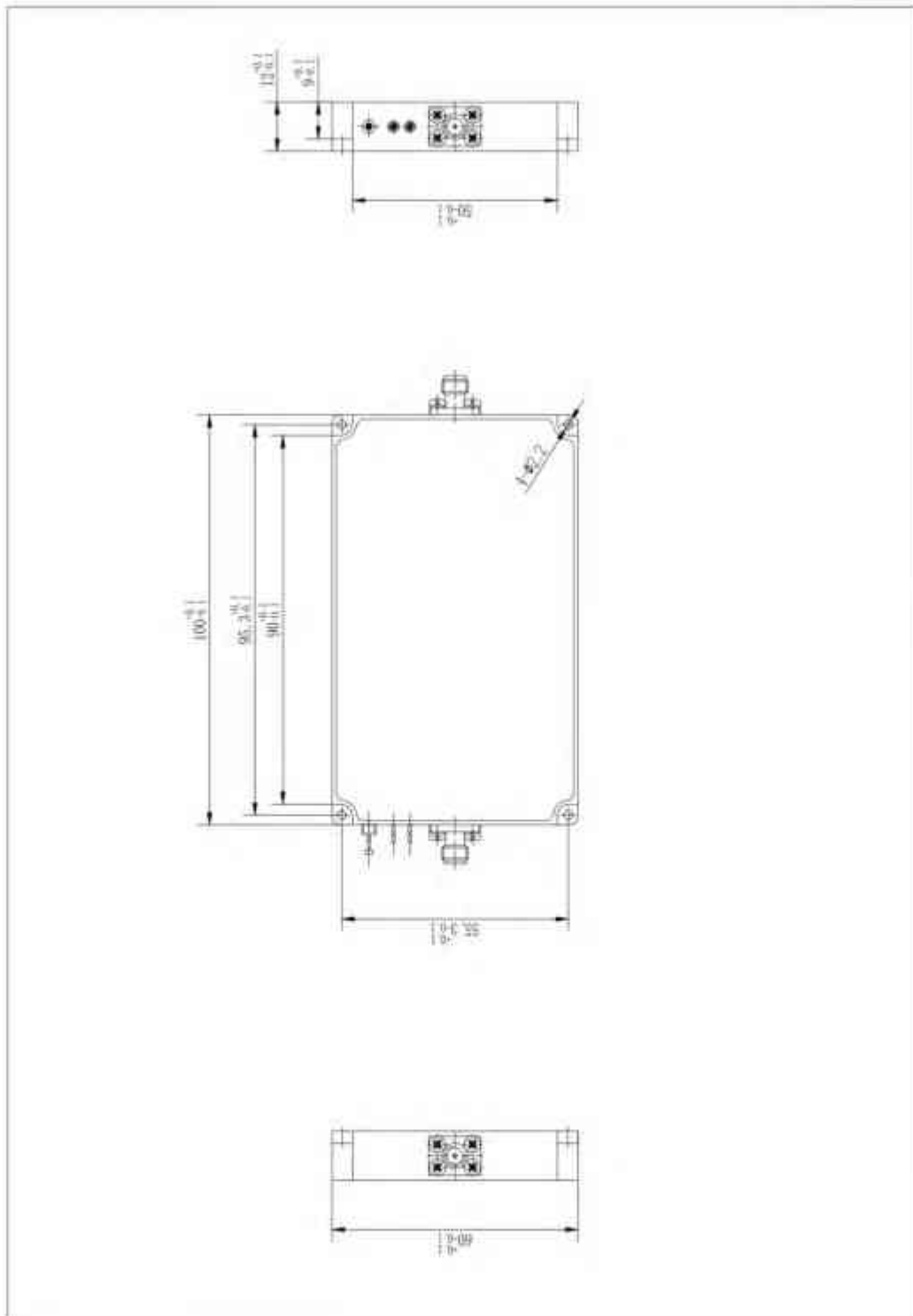
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

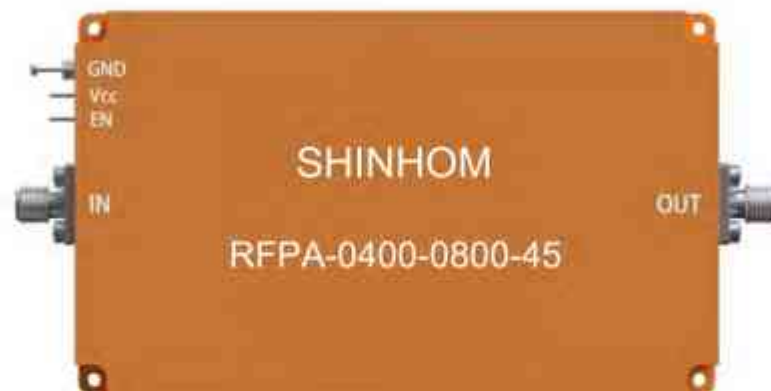
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

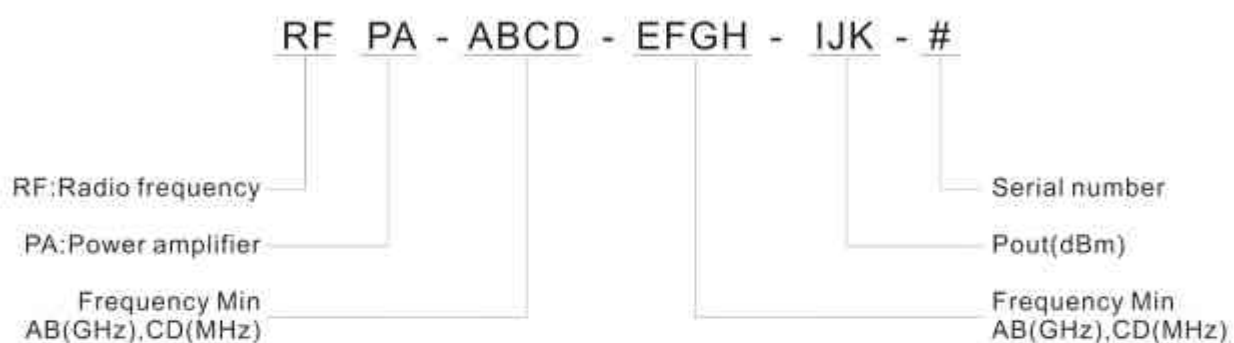


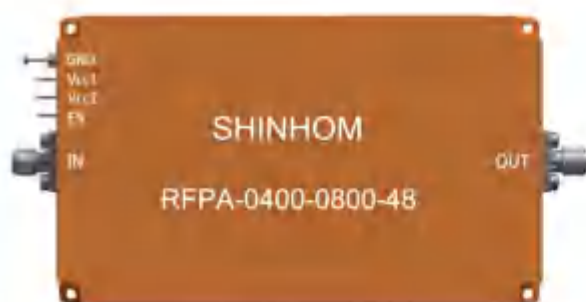


Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 4.0 to 8.0 GHz.
- Typical values: Pout 48 dBm, Gain 40 dB
- Power Added Efficiency: 18%
- Gain Flatness ± 2 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0400-0800-48

The RFP-0400-0800-48 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	Typ	Max	
Frequency	4.0	-	8.0	GHz
Output Power		48		dBm
Small Signal Gain	38	40	42	dB
Gain Flatness	-	± 2	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

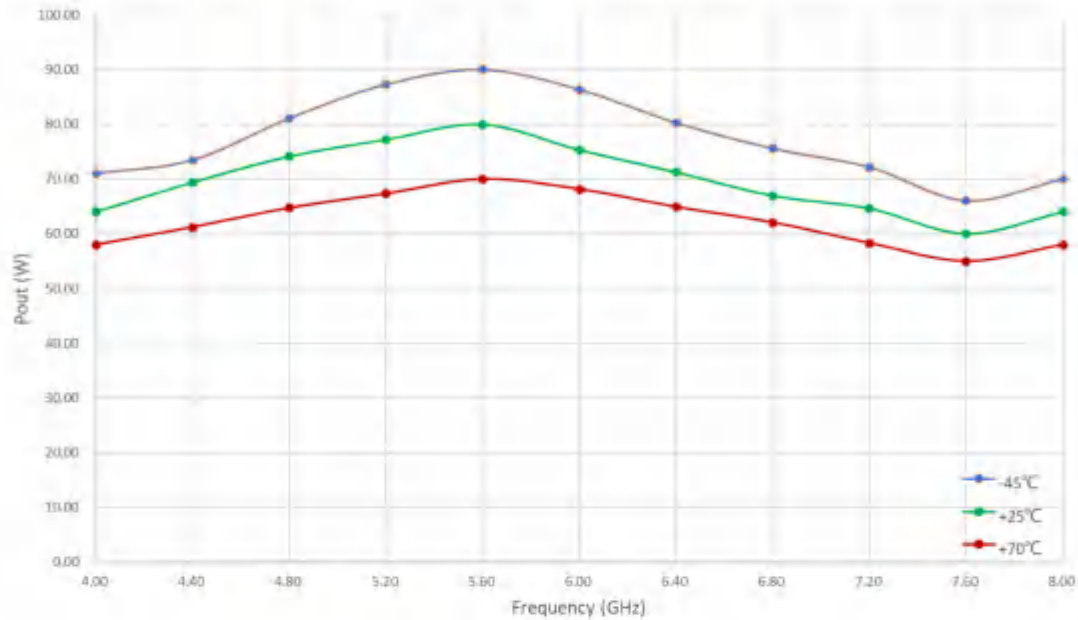


Figure 1: RFP-0400-0800-48 Psat

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.

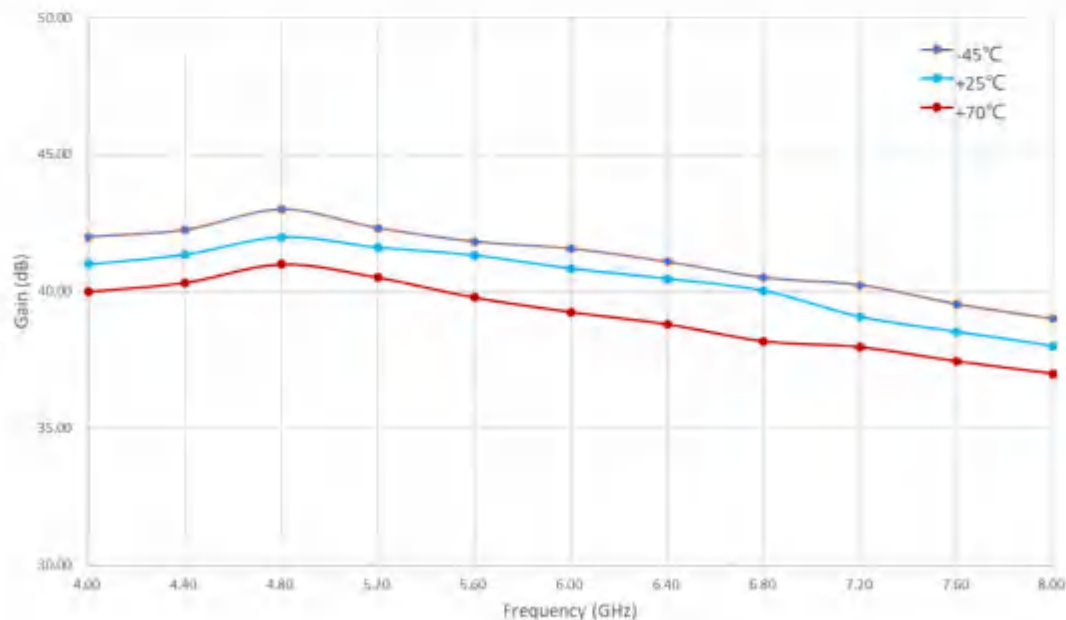


Figure 2: RFP-0400-0800-48 Small Signal Gain Vs Temperature

Input VSWR

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

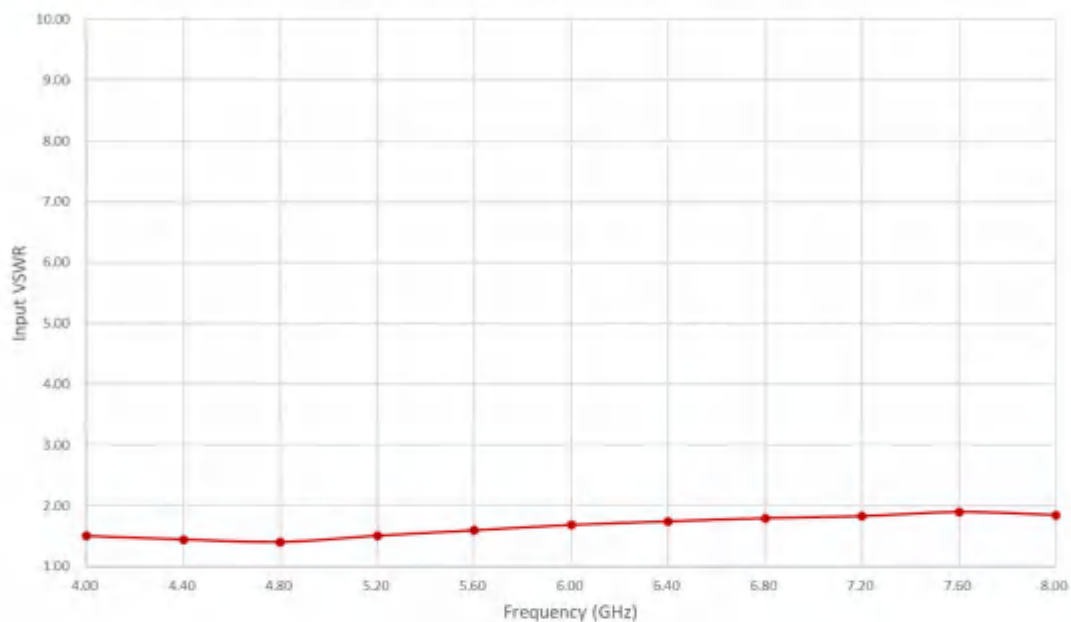


Figure 3: RFPA-0400-0800-48 Input VSWR

P.A.E

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

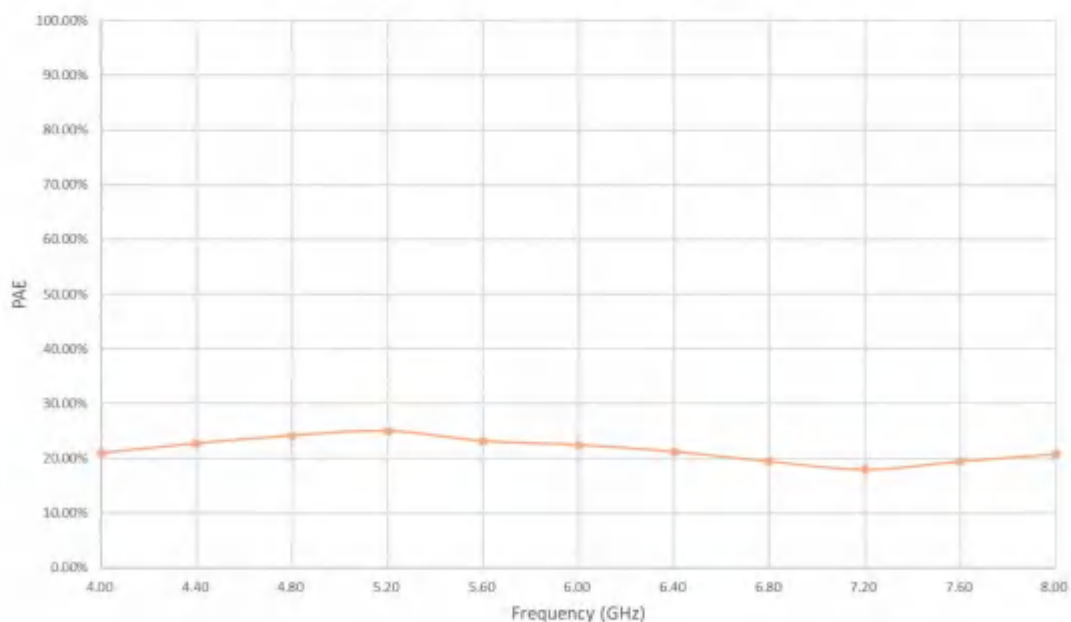


Figure 4: RFPA-0400-0800-48 P.A.E

Absolute Maximum Ratings

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

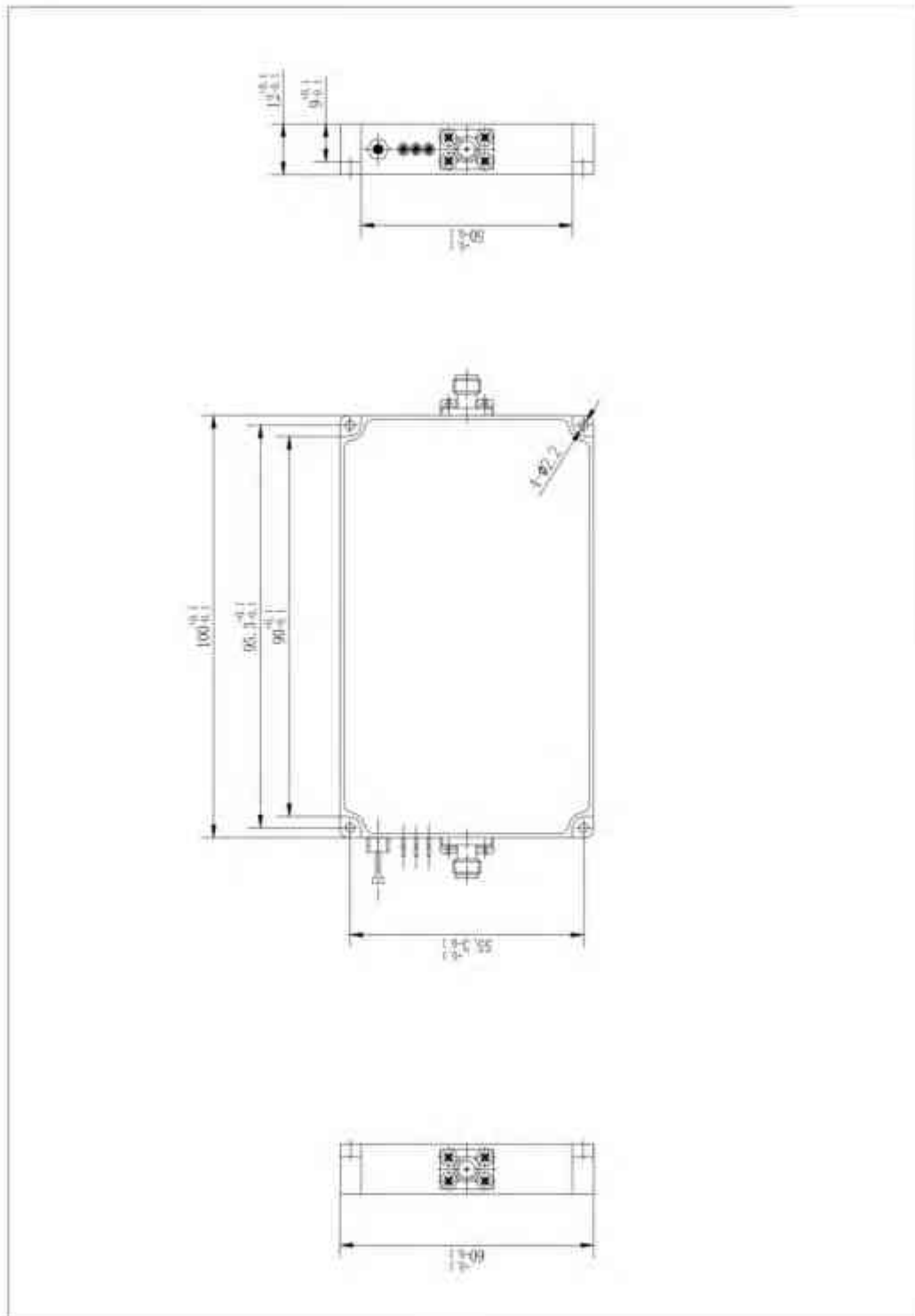
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

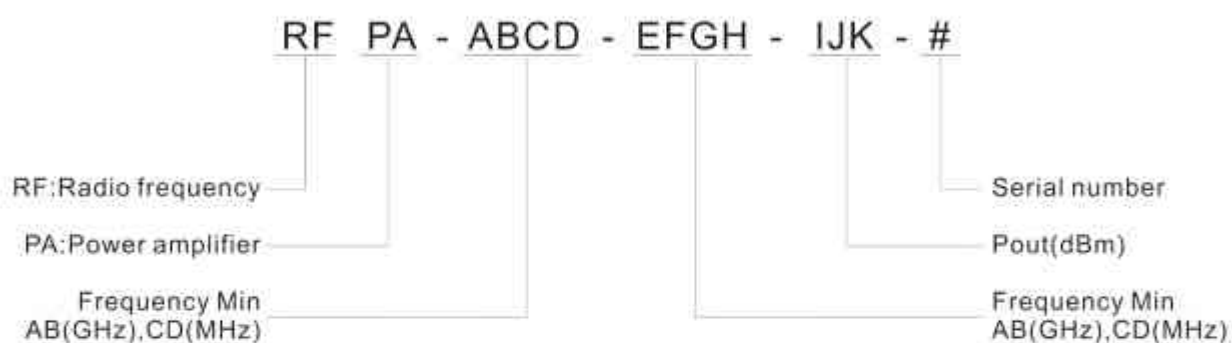




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 6.0 to 18.0 GHz.
- Typical values: Pout 41 dBm, Gain 38 dB
- Power Added Efficiency: 16%
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFP-0600-1800-41

The RFP-0600-1800-41 is a High Power Amplifier providing an output power of 41 dBm and a gain of 38 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	6.0	-	18.0	GHz
Output Power		41		dBm
Small Signal Gain	35.5	38	40.5	dB
Gain Flatness	-	± 2.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

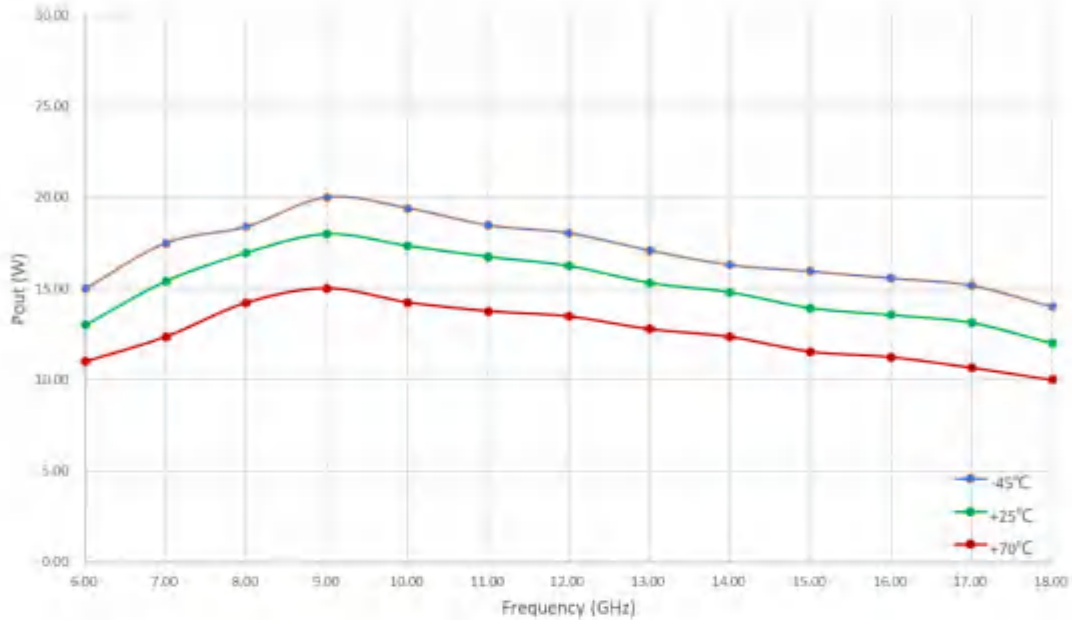


Figure 1: RFP-0600-1800-41 Psat

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.

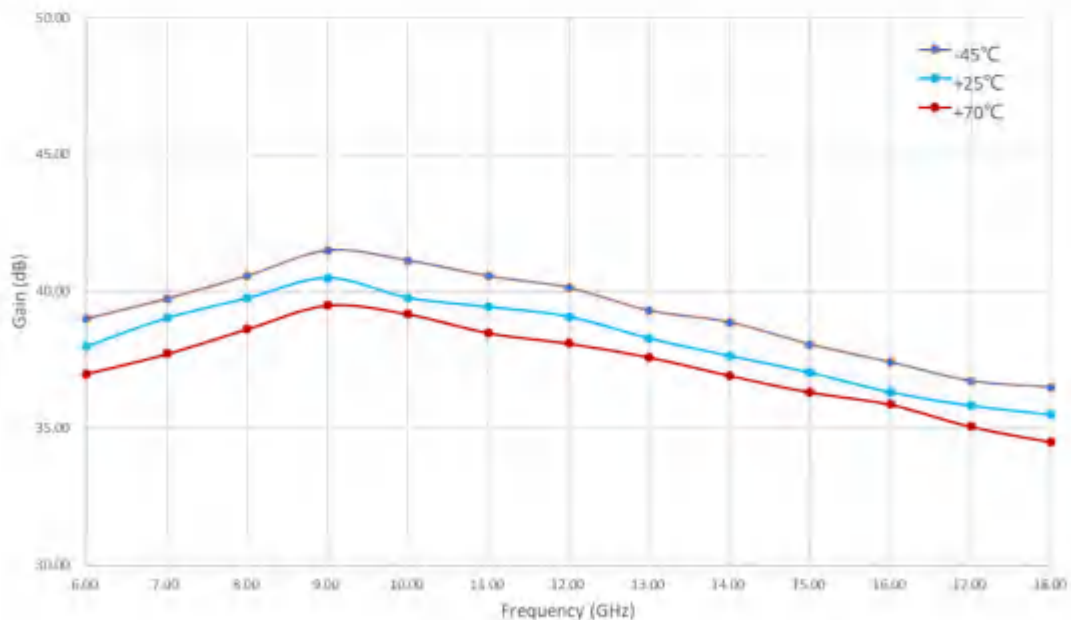


Figure 2: RFP-0600-1800-41 Small Signal Gain Vs Temperature

Input VSWR

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

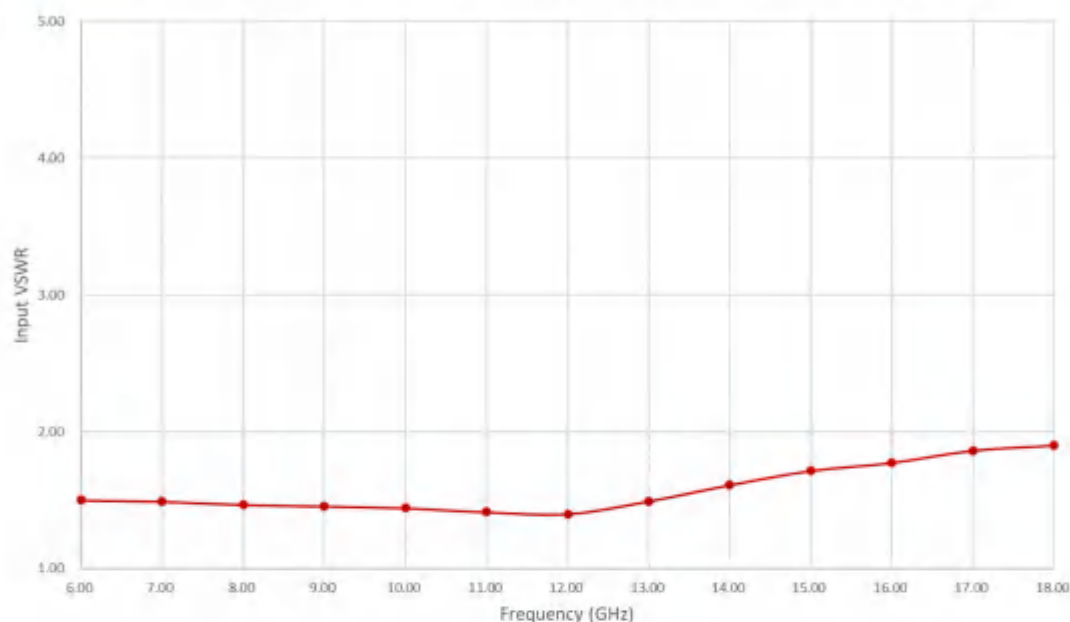


Figure 3: RFPA-0600-1800-41 Input VSWR

P.A.E

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

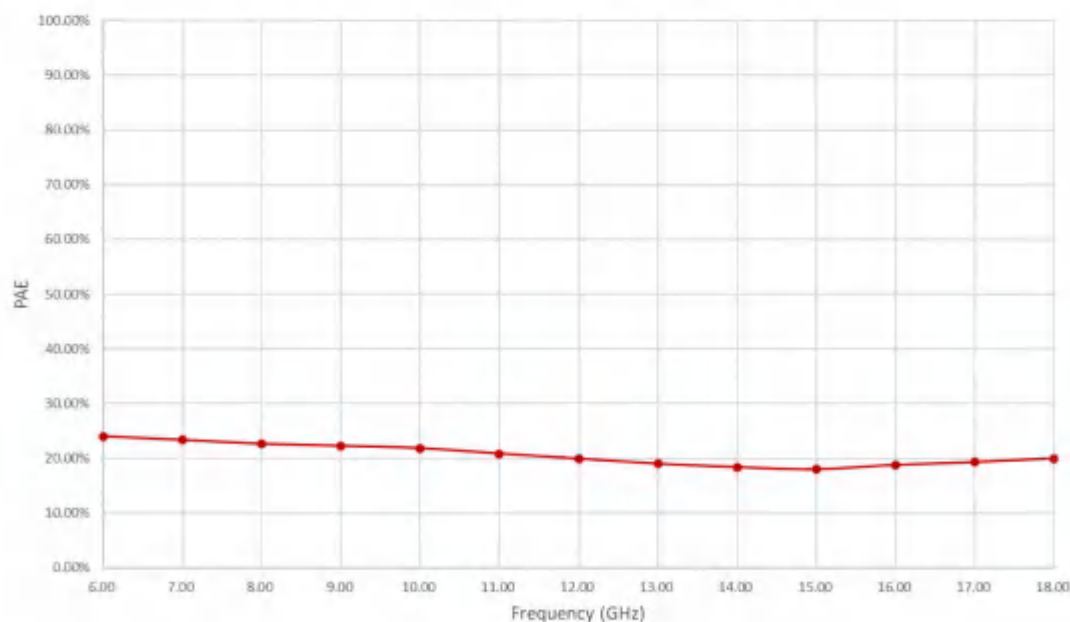


Figure 4: RFPA-0600-1800-41 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

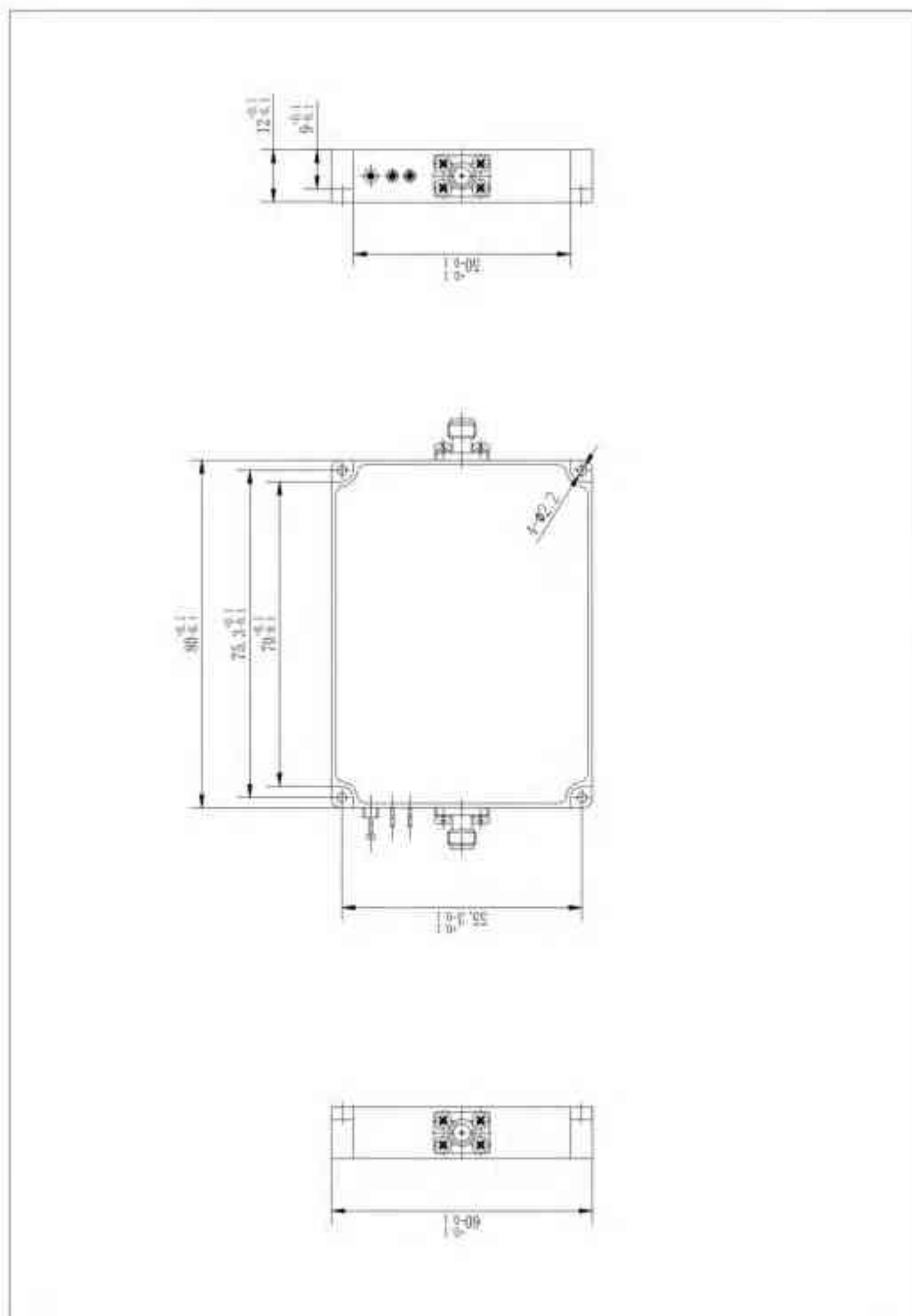
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

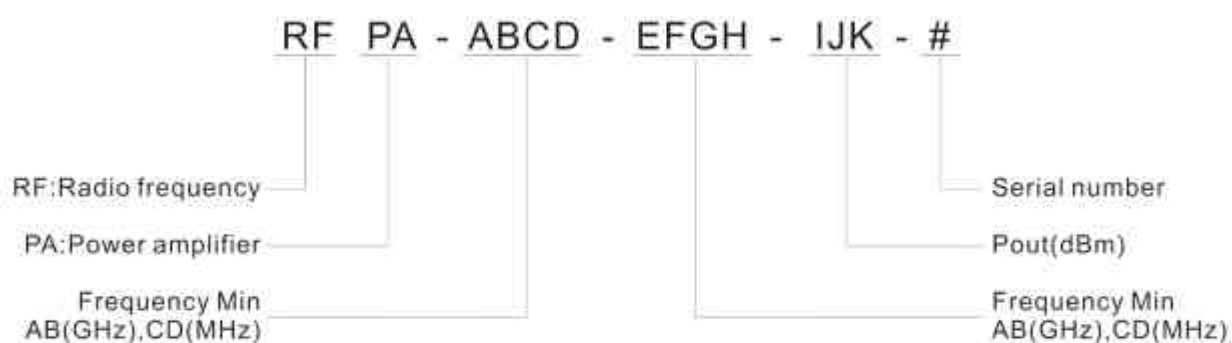




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 8.0 to 12.0 GHz.
- Typical values: Pout 42 dBm, Gain 41 dB
- Power Added Efficiency: 30%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP-0800-1200-42

The RFP-0800-1200-42 is a High Power Amplifier providing an output power of 42 dBm and a gain of 41 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	Typ	Max	
Frequency	8.0	-	12.0	GHz
Output Power		42		dBm
Small Signal Gain	39.5	41	42.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		28		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

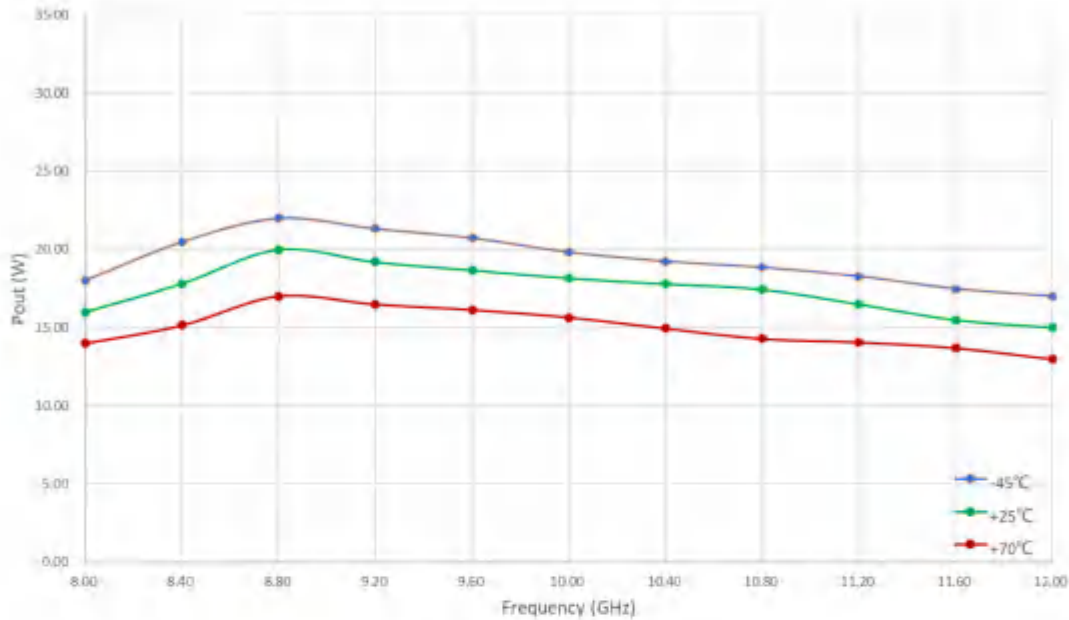


Figure 1: RFP-0800-1200-42 Psat

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.

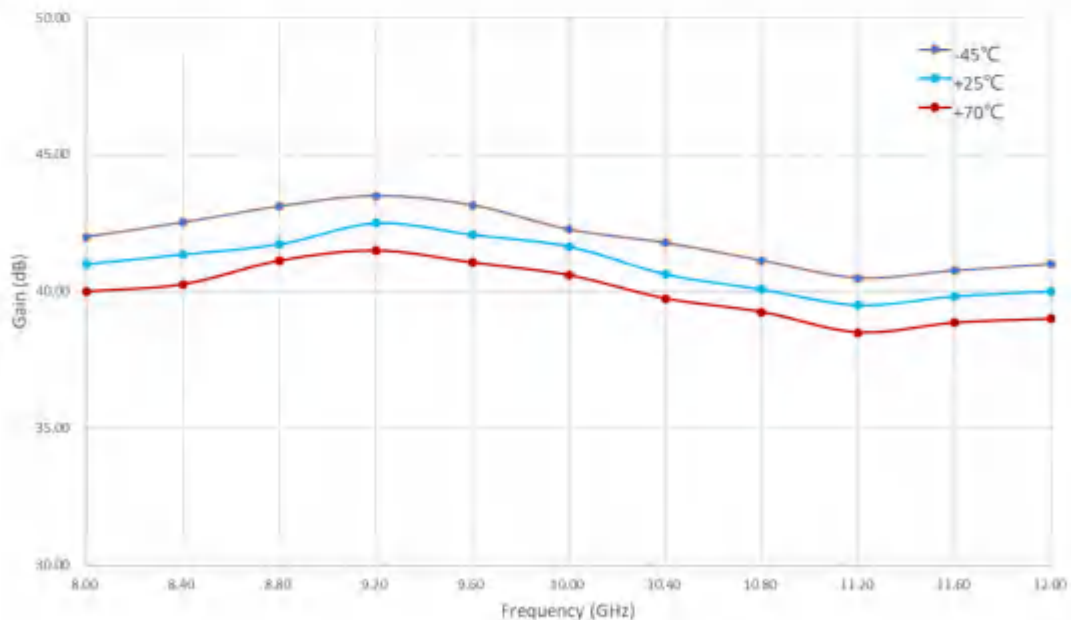


Figure 2: RFP-0800-1200-42 Small Signal Gain Vs Temperature

Input VSWR

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

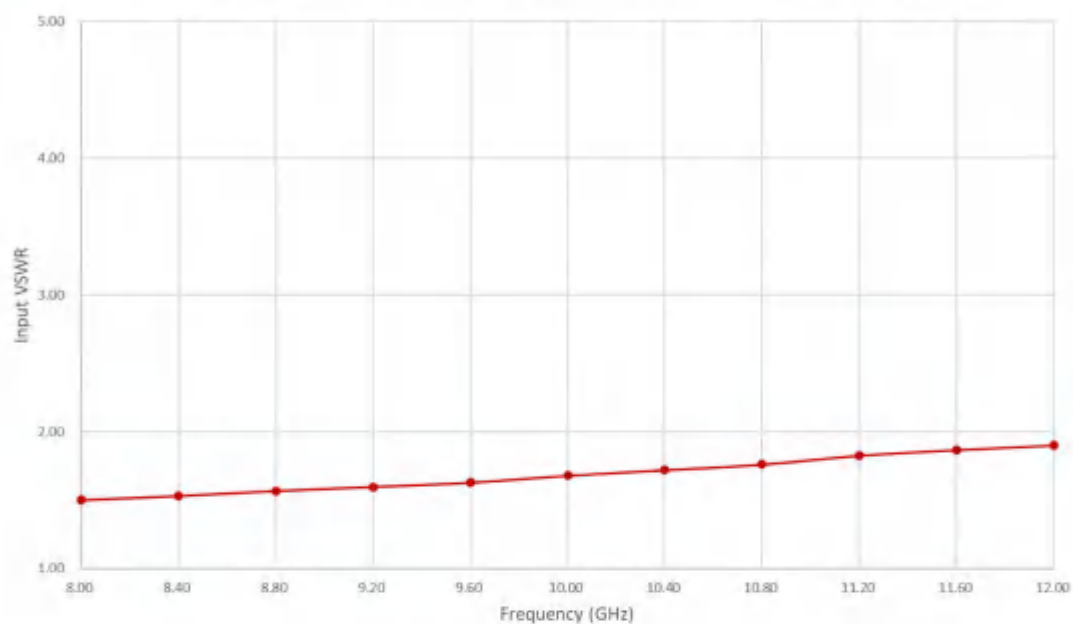


Figure 3: RFPA-0800-1200-42 Input VSWR

P.A.E

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

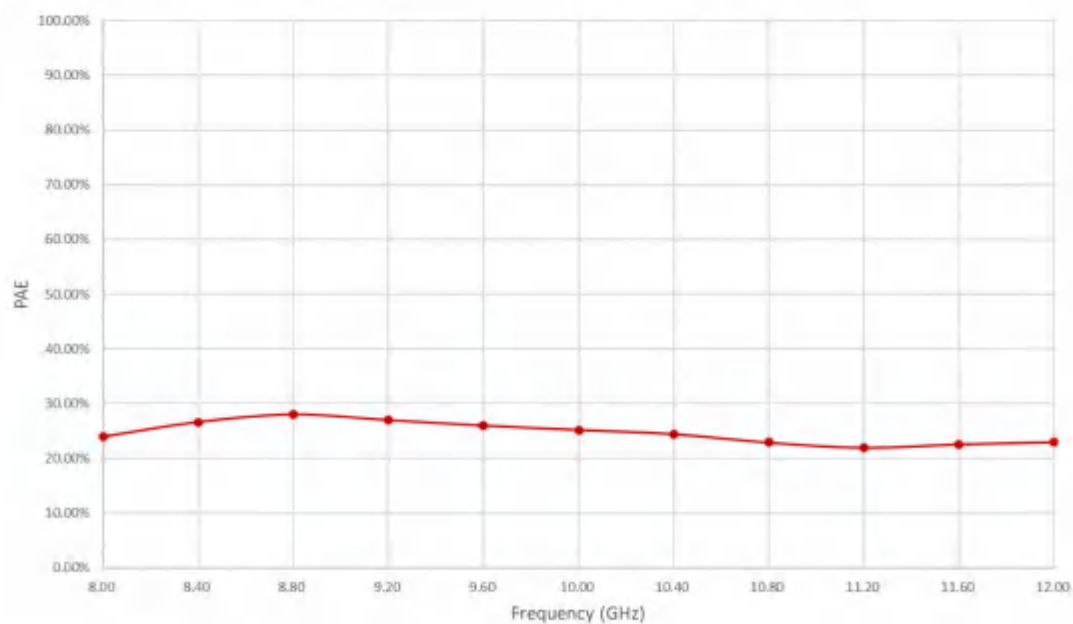


Figure 4: RFPA-0800-1200-42 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

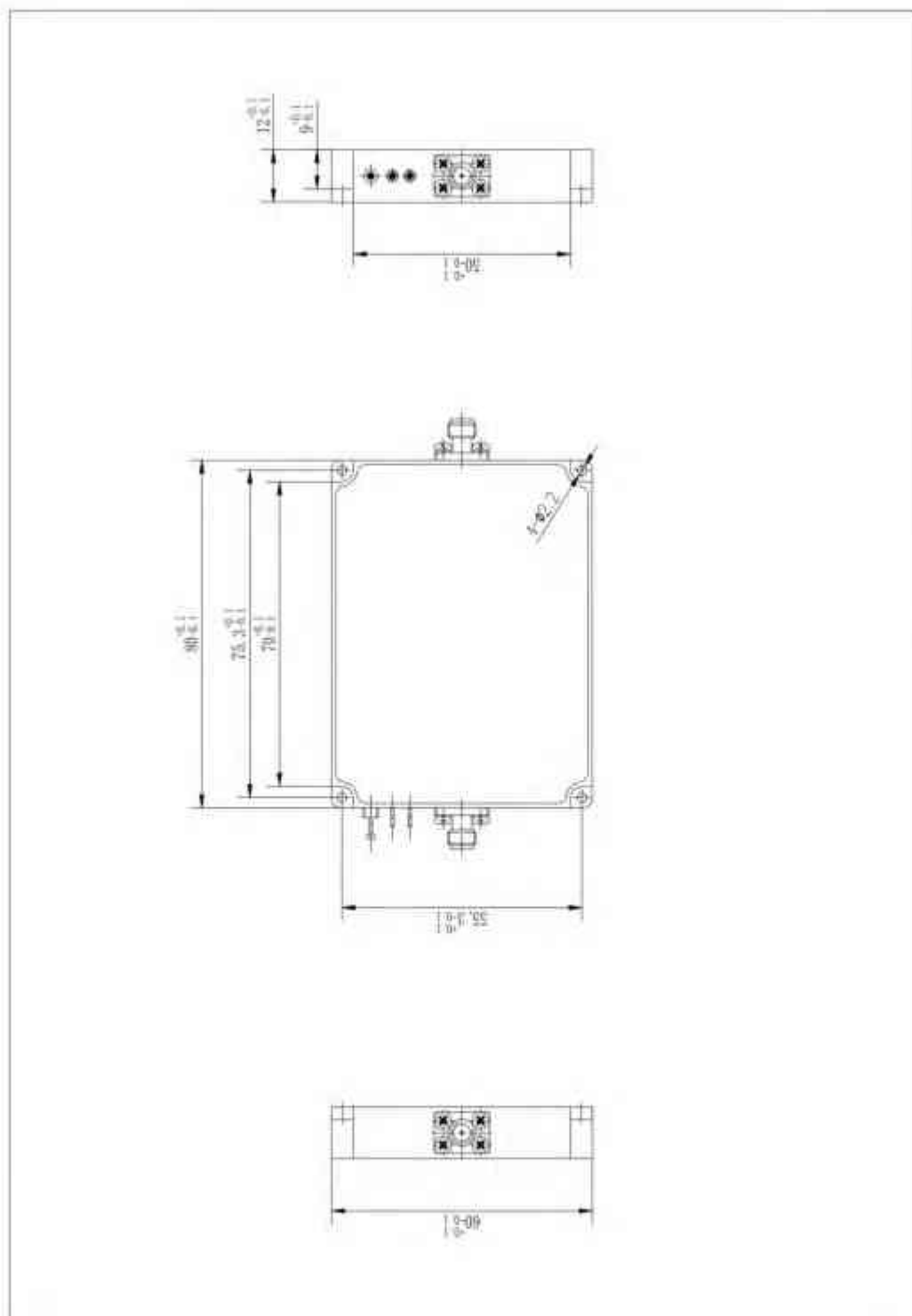
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

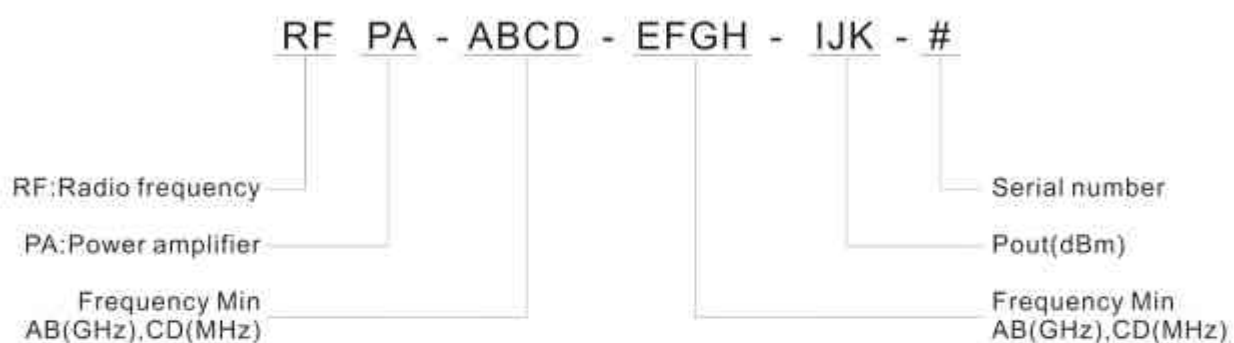




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 18.0 to 40.0 GHz
- Typical values: Pout 40 dBm, Gain 40 dB
- Power Added Efficiency: 12%
- Gain Flatness ± 3 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-1800-4000-40

The RFPA-1800-4000-40 is a High Power Amplifier providing an output power of 40 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	Typ	Max	
Frequency	18.0	-	40.0	GHz
Output Power		40		dBm
Small Signal Gain	37	40	43	dB
Gain Flatness	-	± 3	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		20		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

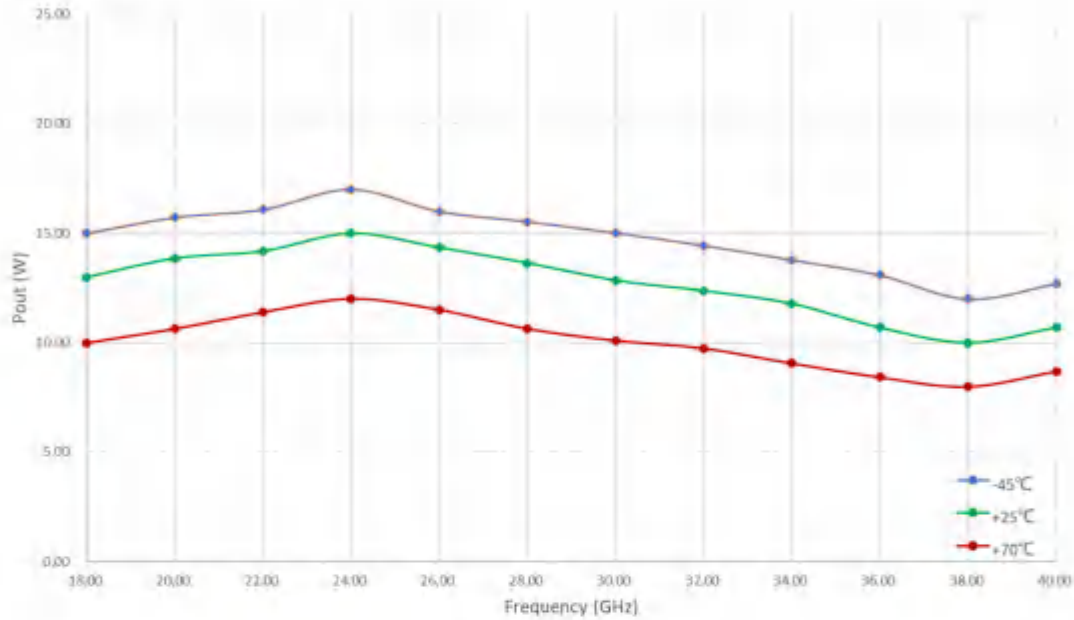


Figure 1: RFPA-1800-4000-40 Psat

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.

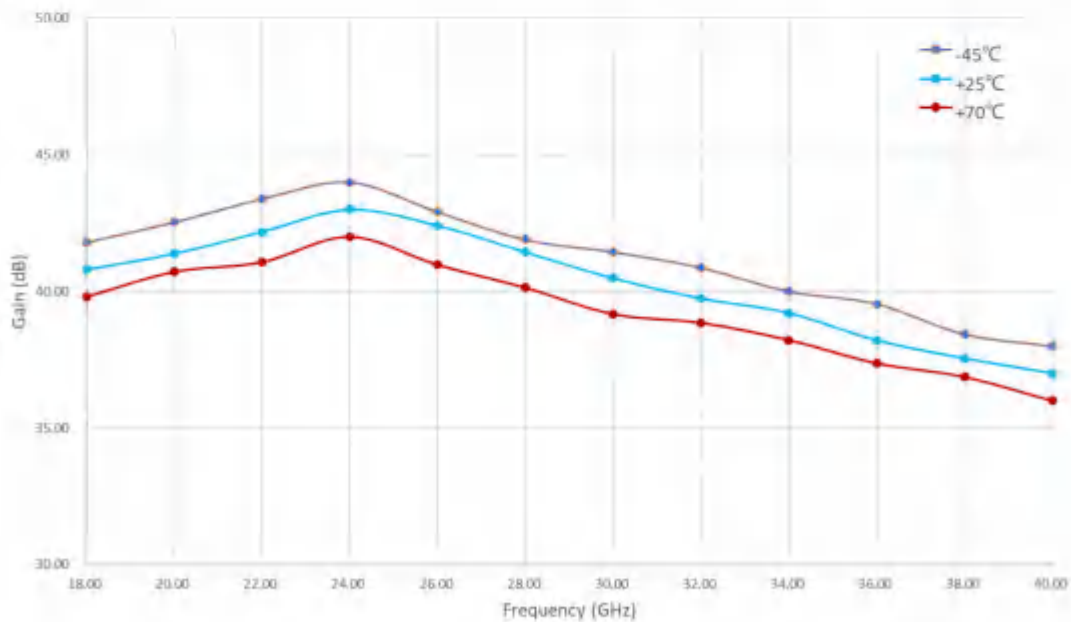


Figure 2: RFPA-1800-4000-40 Small Signal Gain Vs Temperature

Input VSWR

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

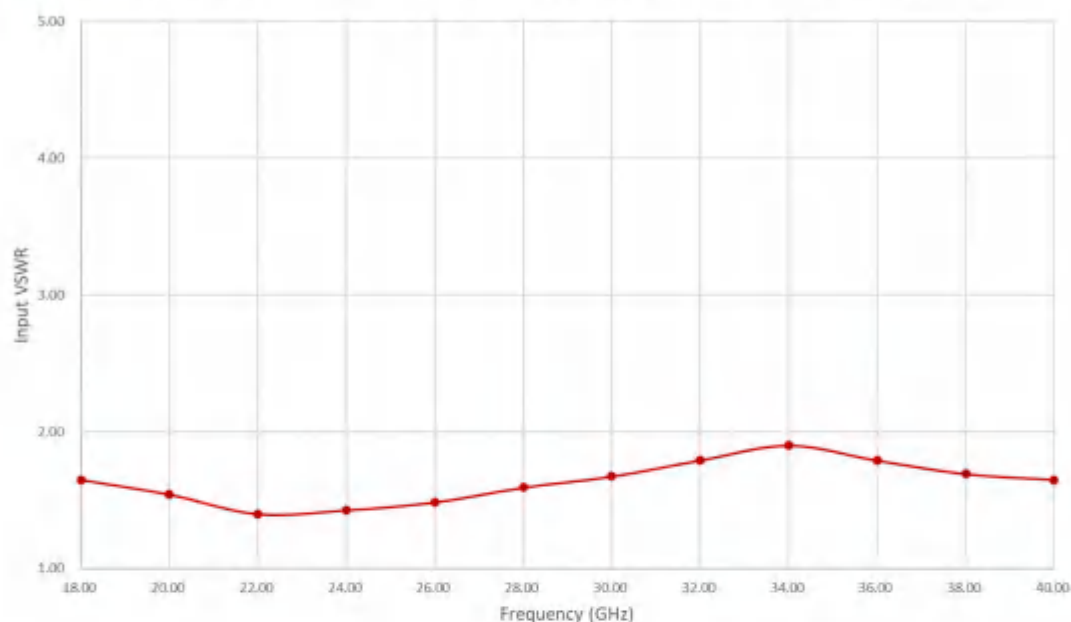


Figure 3: RFPA-1800-4000-40 Input VSWR

P.A.E

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

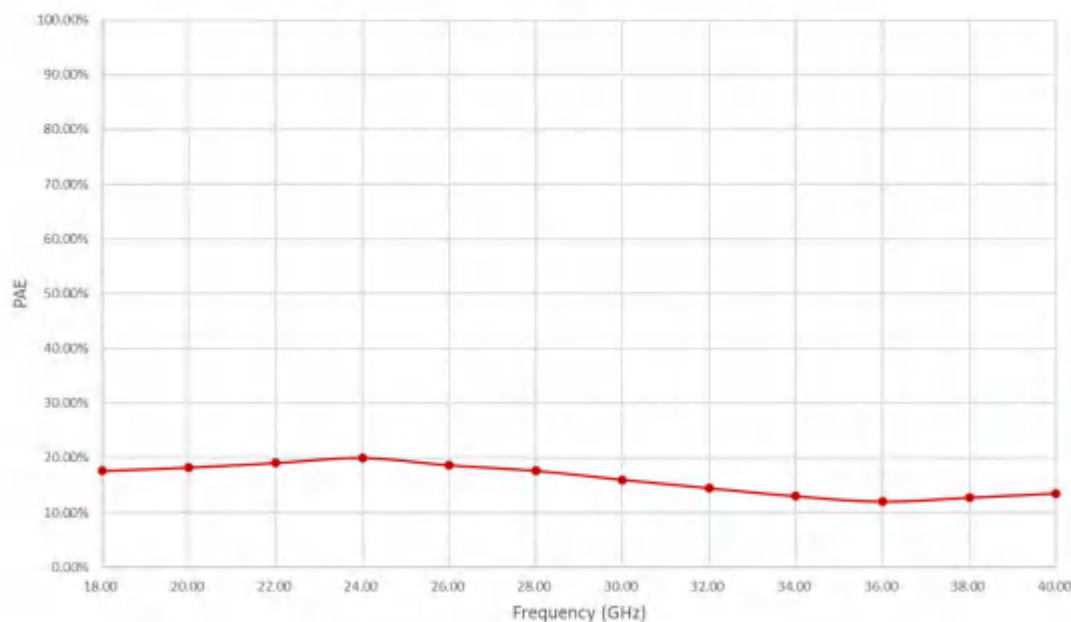


Figure 4: RFPA-1800-4000-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+24 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

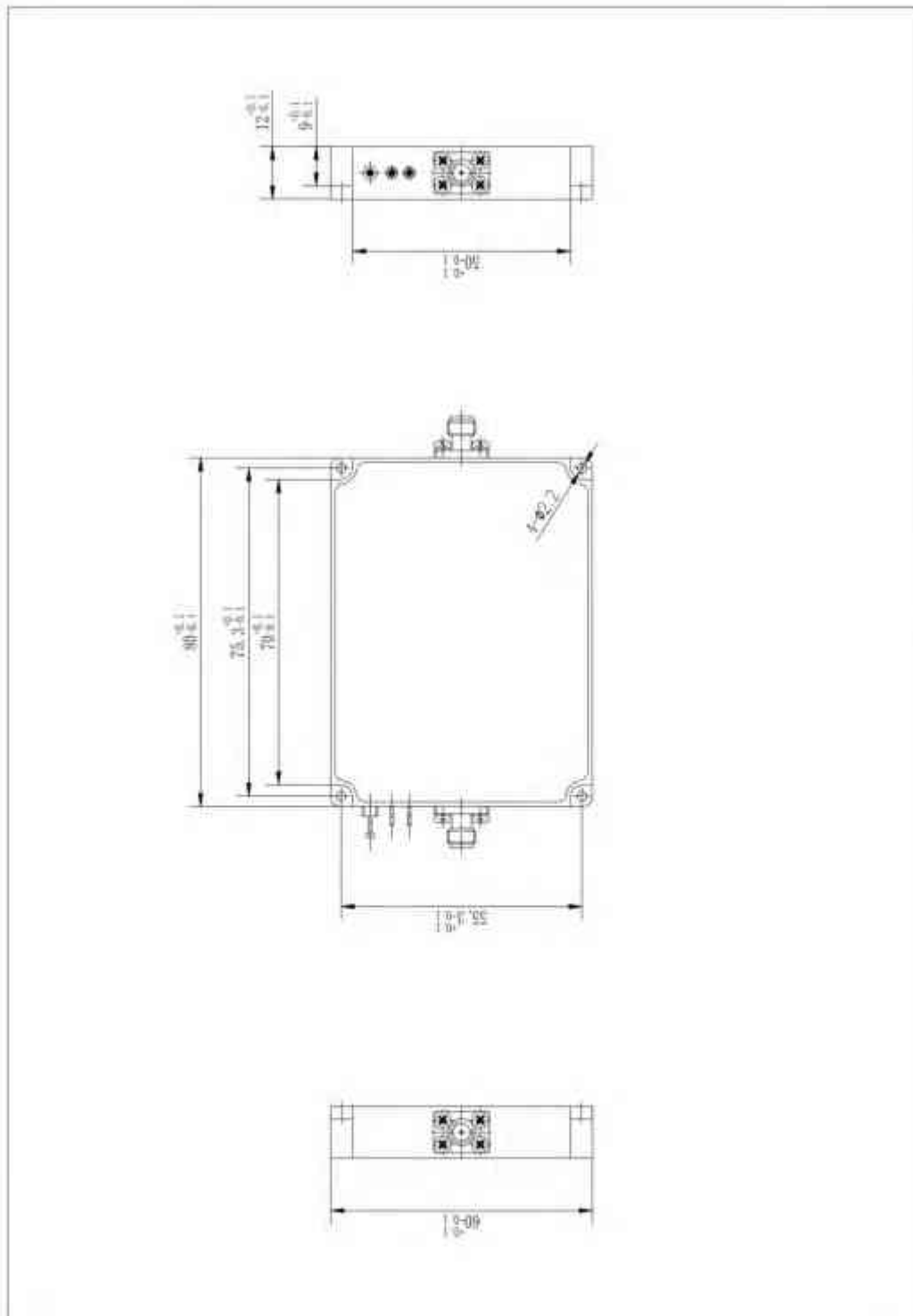
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

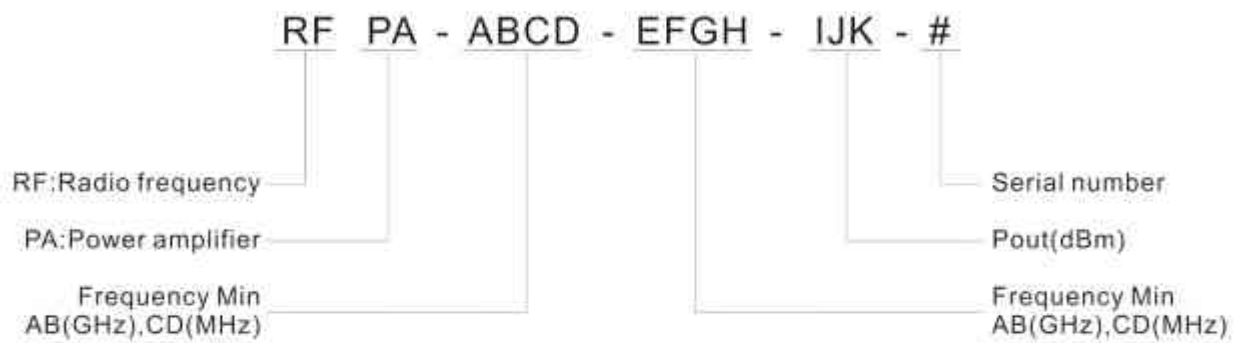




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +20V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 27.0 to 32.0 GHz
- Typical values: Pout 43 dBm, Gain 40 dB
- Power Added Efficiency: 12%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFP-2700-3200-43

The RFP-2700-3200-43 is a High Power Amplifier providing an output power of 43 dBm and a gain of 40 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	27.0	-	32.0	GHz
Output Power		43		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		20		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

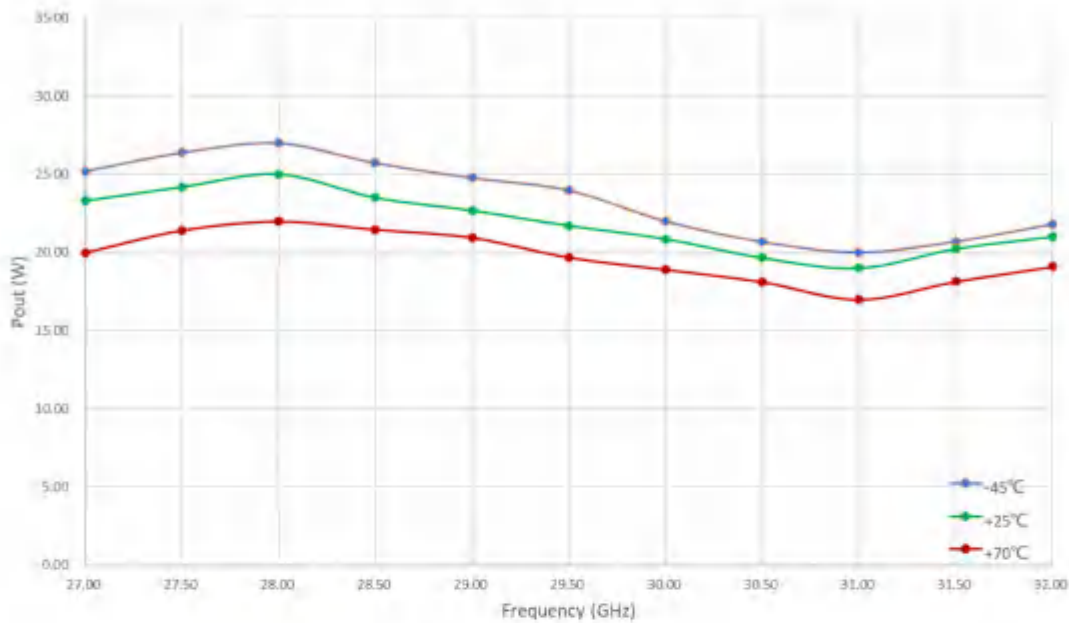


Figure 1: RFP-2700-3200-43 P_{sat}

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.

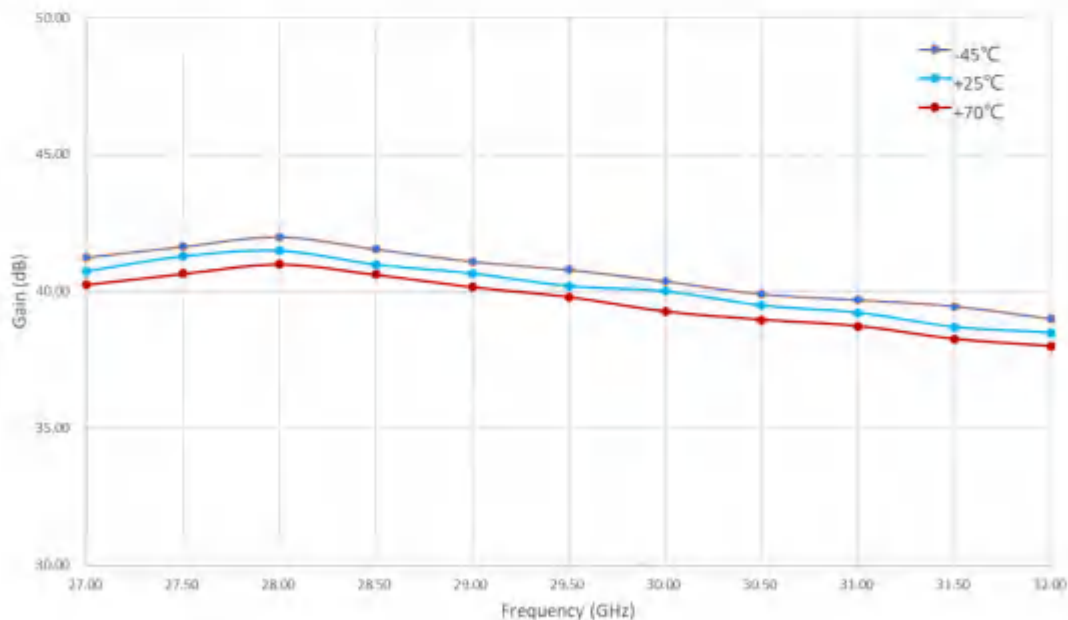


Figure 2: RFP-2700-3200-43 Small Signal Gain Vs Temperature

Input VSWR

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

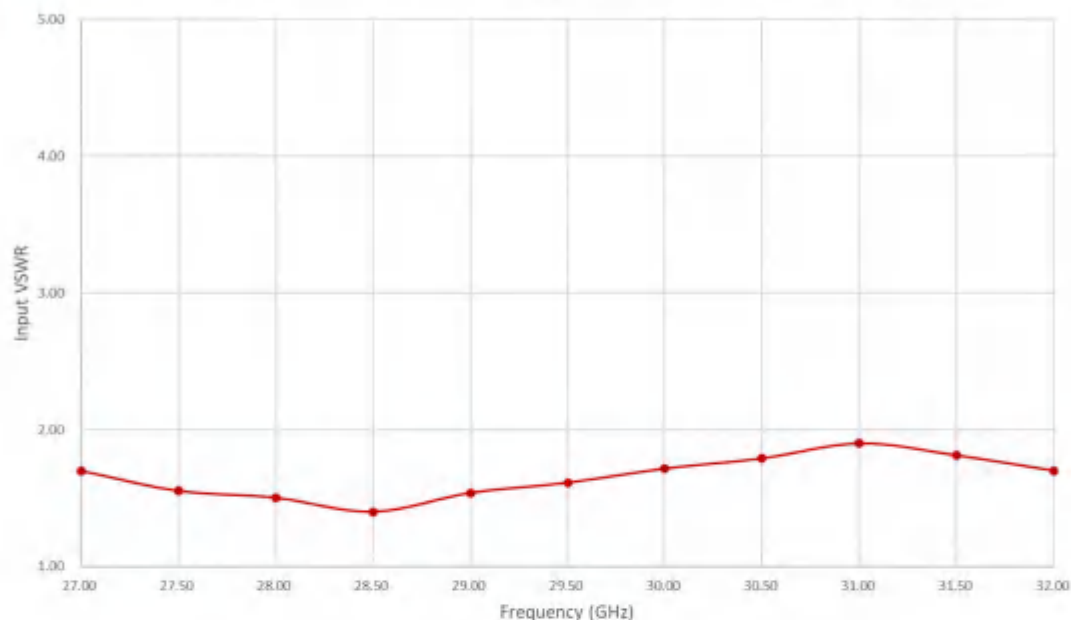


Figure 3: RFPA-2700-3200-43 Input VSWR

P.A.E

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

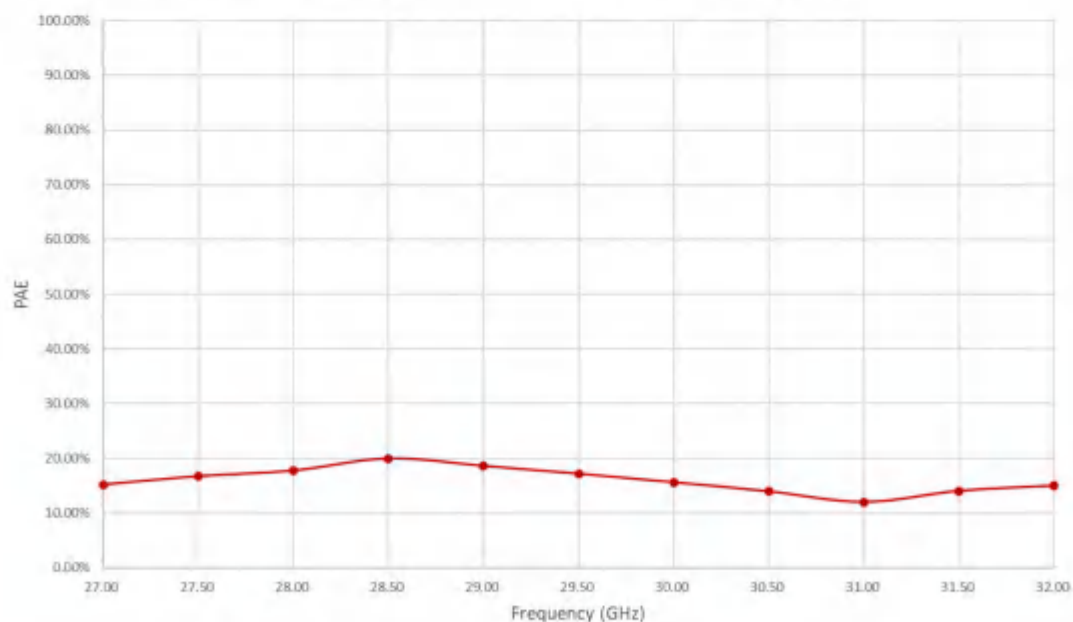


Figure 4: RFPA-2700-3200-43 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+24 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

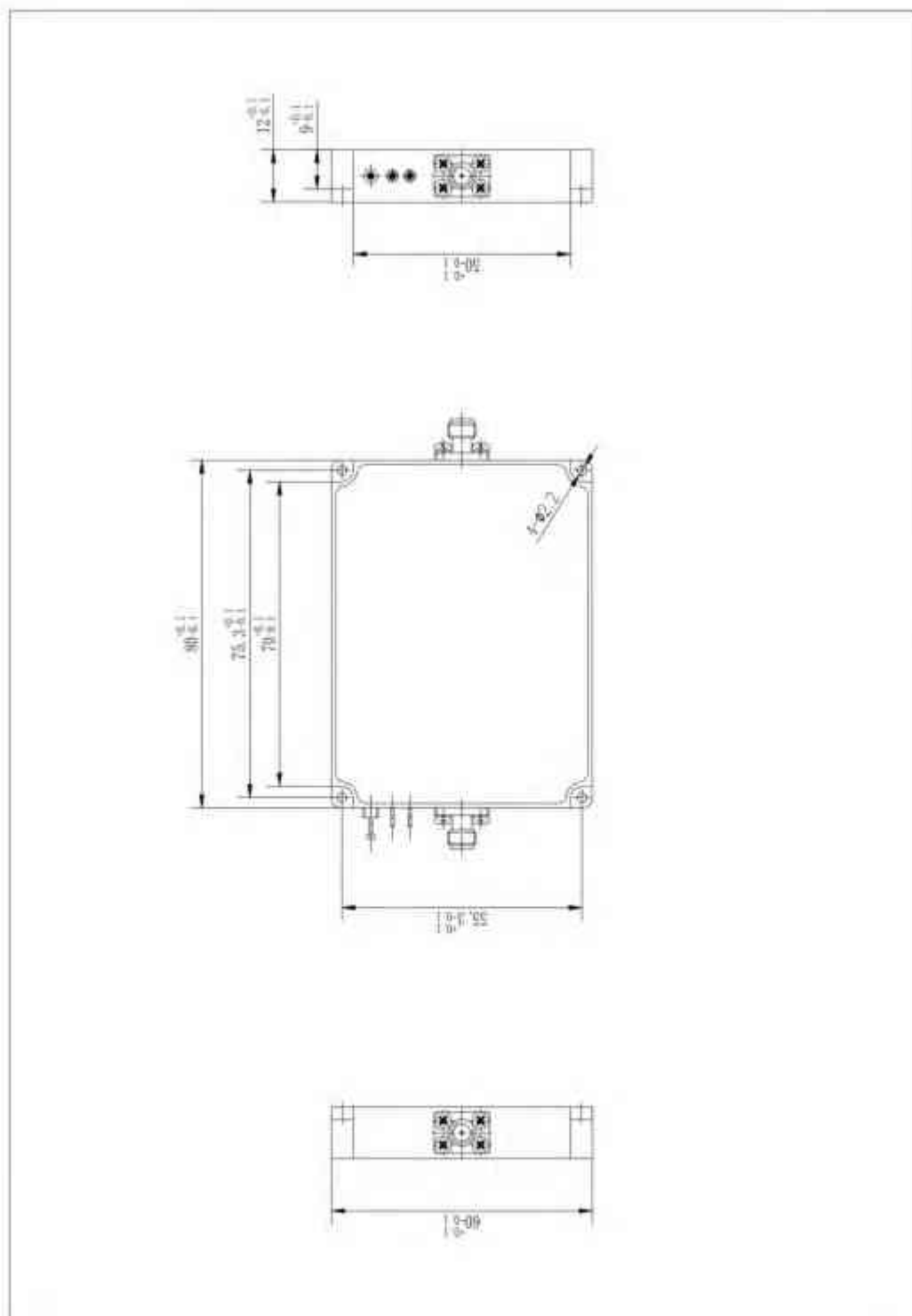
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

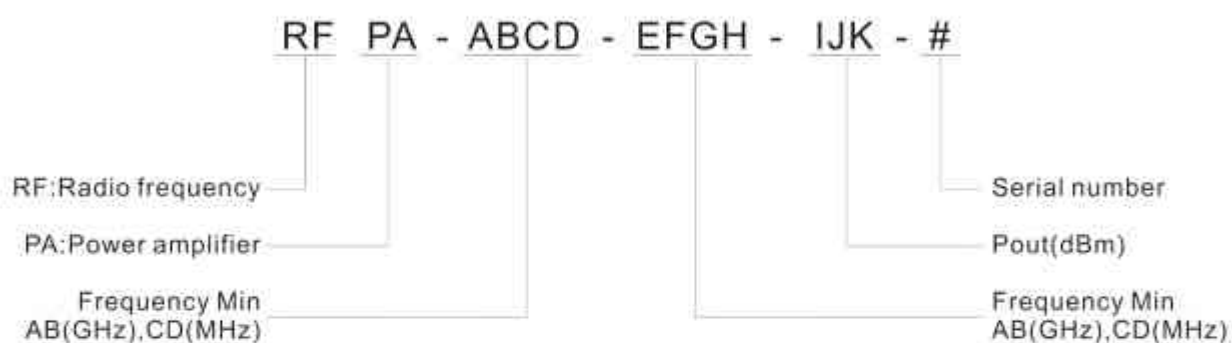




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +20V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 31.0 to 37.0 GHz
- Typical values: Pout 40 dBm, Gain 40 dB
- Power Added Efficiency: 22%
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-3100-3700-40

The RFPA-3100-3700-40 is a High Power Amplifier providing an output power of 40 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	Typ	Max	
Frequency	31.0	-	37.0	GHz
Output Power		40		dBm
Small Signal Gain	38.5	40	41.5	dB
Gain Flatness	-	± 1.5	-	dB
VSWR input	1.4	-	1.9	-
DC Voltage		24		V
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

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.

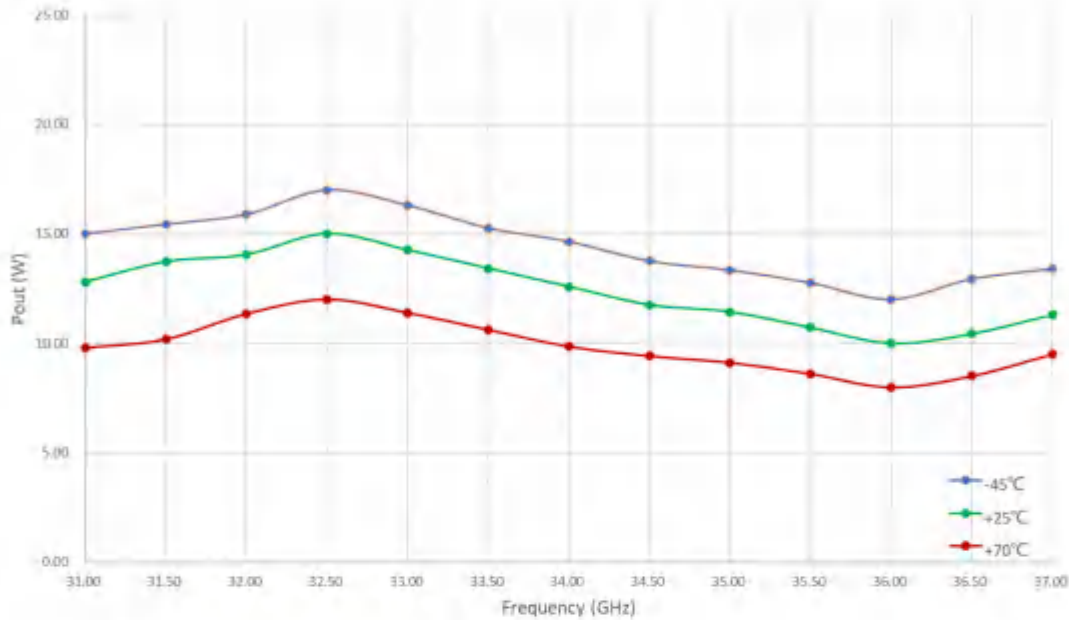


Figure 1: RFP-3100-3700-40 Psat

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.

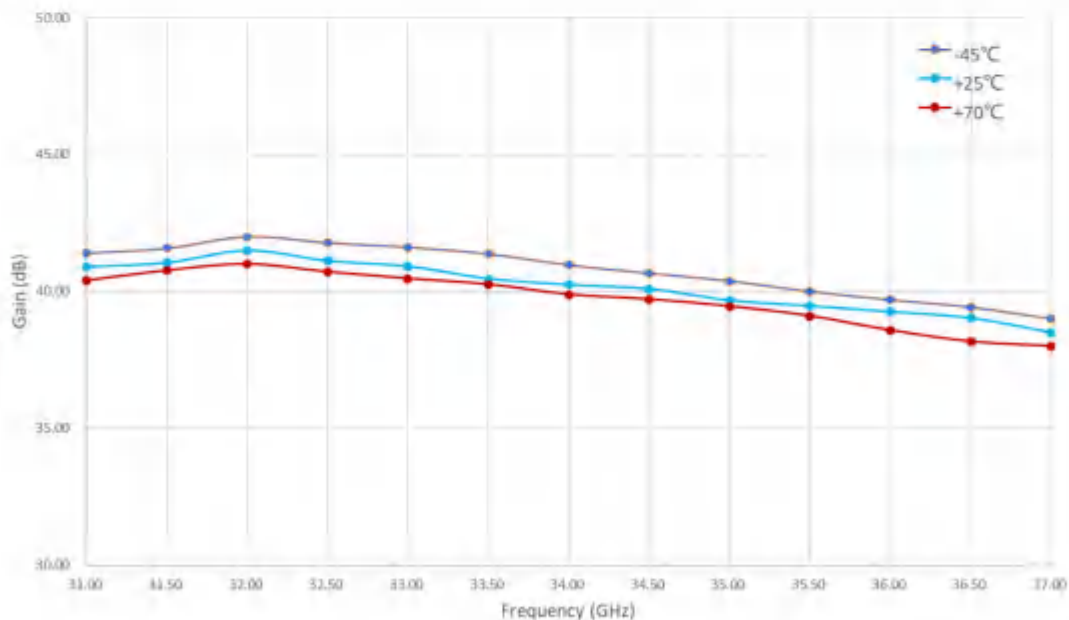


Figure 2: RFP-3100-3700-40 Small Signal Gain Vs Temperature

Input VSWR

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

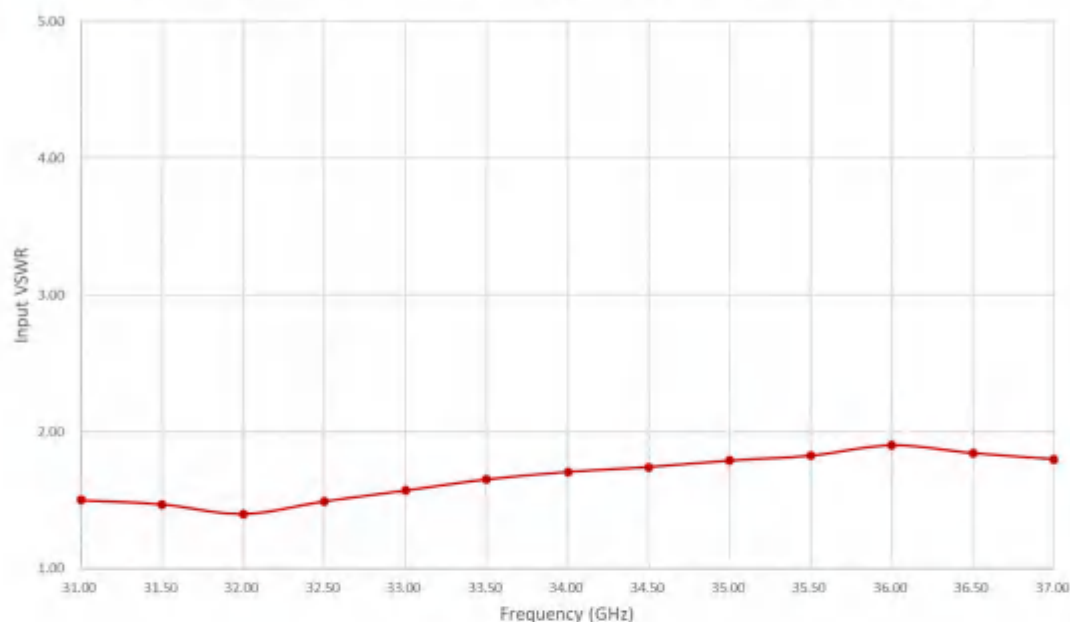


Figure 3: RFPA -3100-3700-40 Input VSWR

P.A.E

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

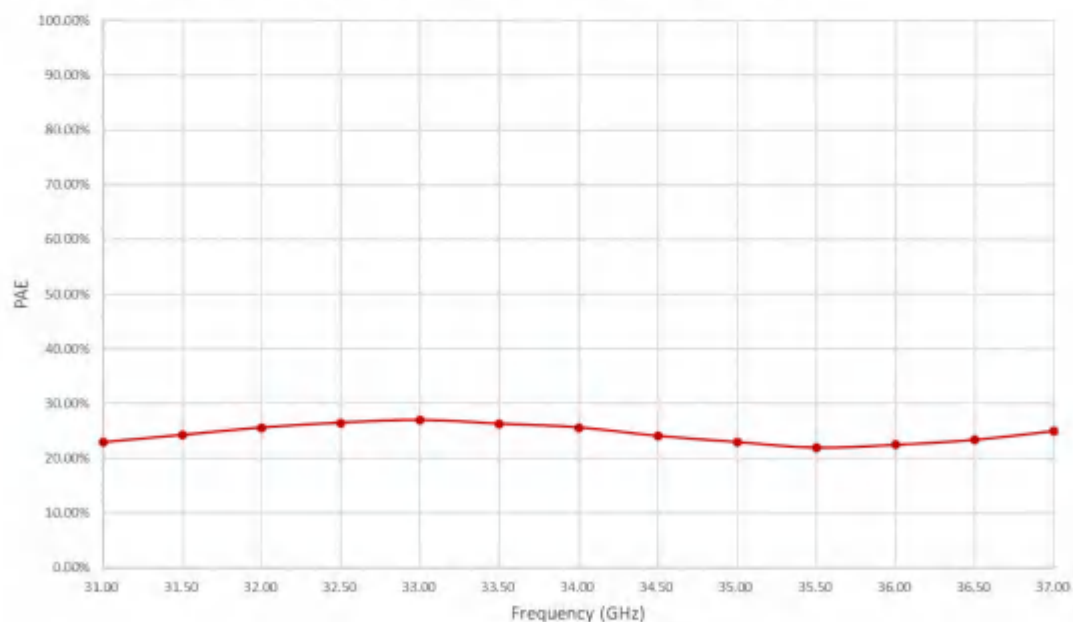


Figure 4: RFPA -3100-3700-40 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+28 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

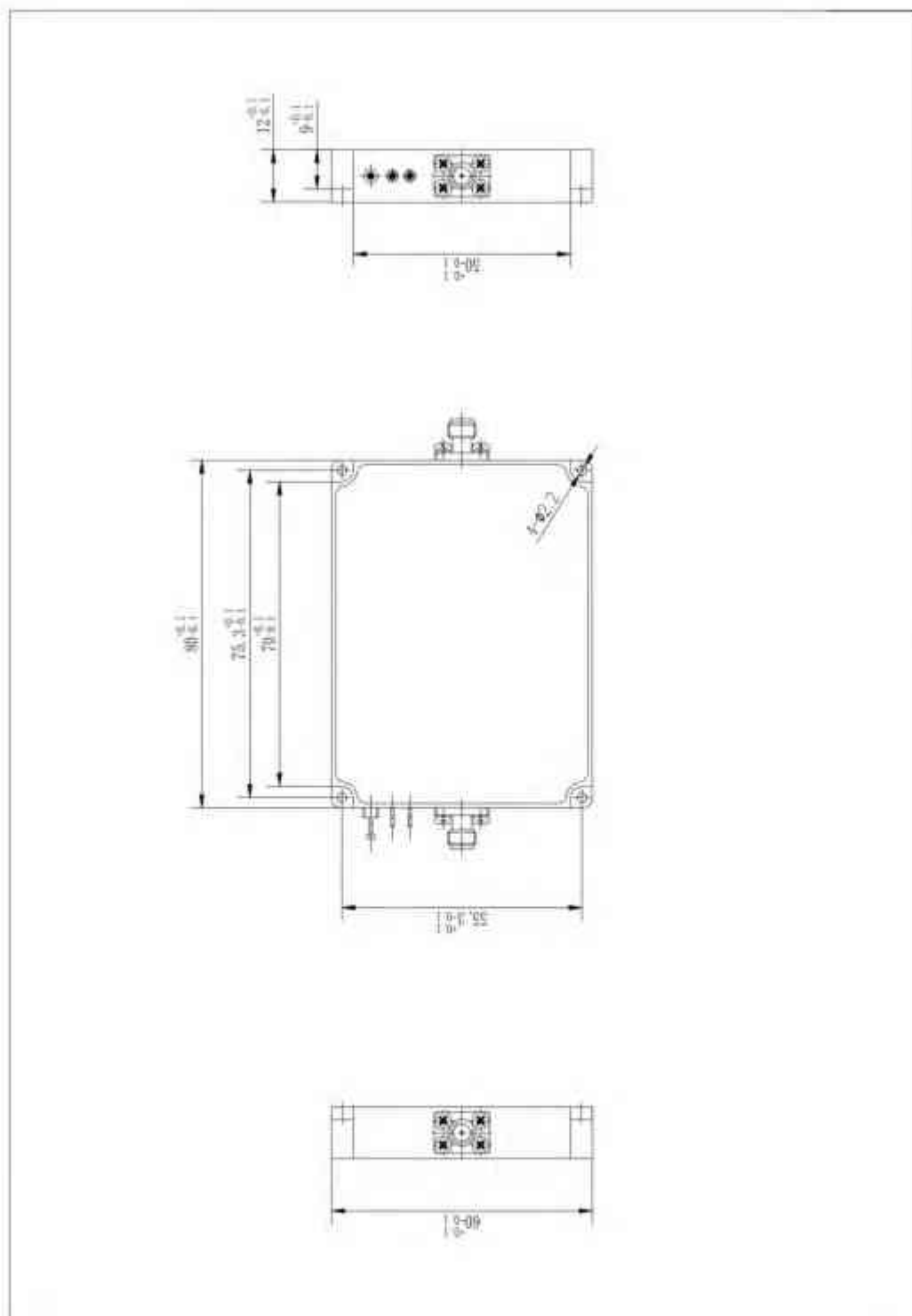
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

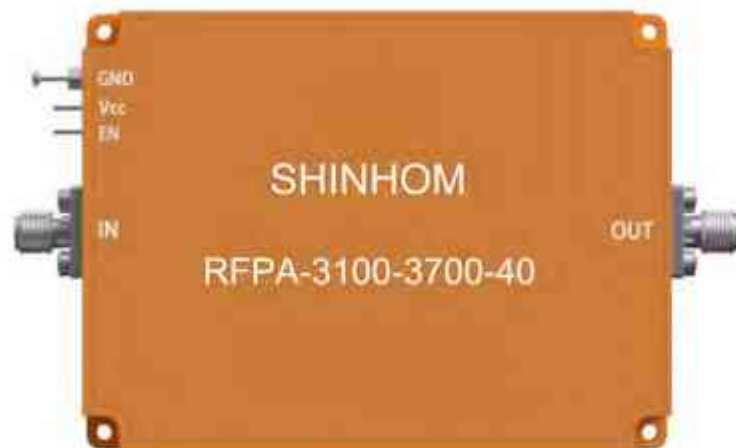
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

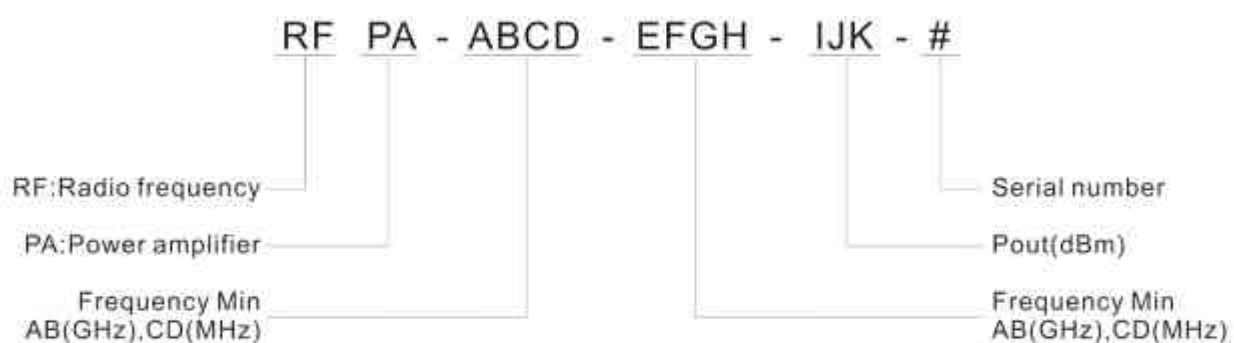




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +24V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 8.0 to 8.5 GHz.
- Typical values: Pout 48 dBm, Gain 40 dB
- Power Added Efficiency: 25%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFP-0800-0850-48

The RFP-0800-0850-48 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.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	8.0	-	8.5	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 °C			
Storage Temperature	-55 to 125 °C			

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.

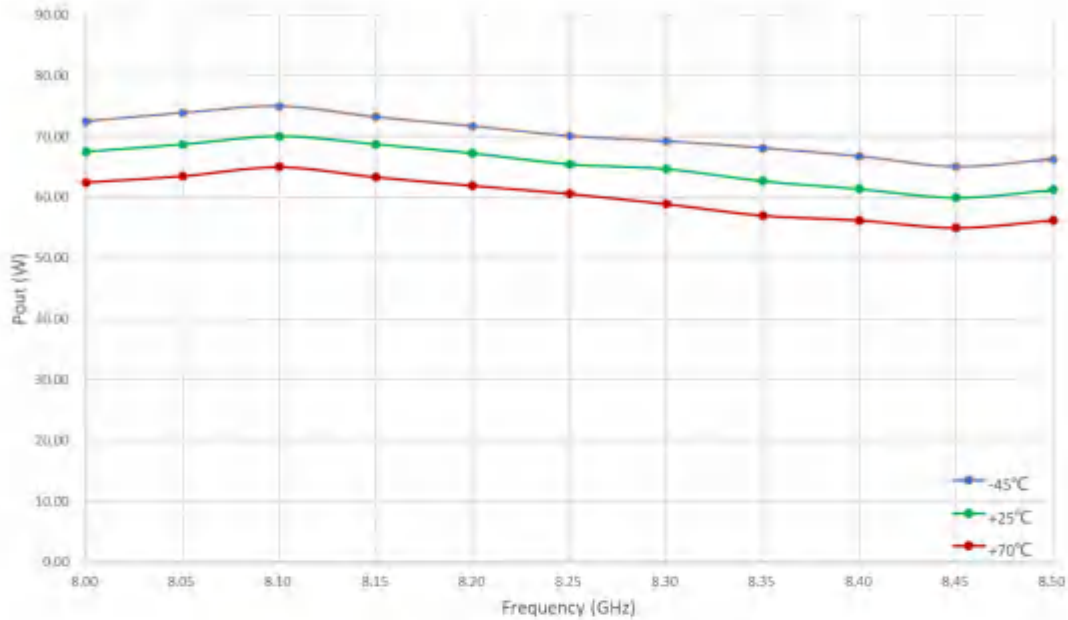


Figure 1: RFPA-0800-0850-48 Psat

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.

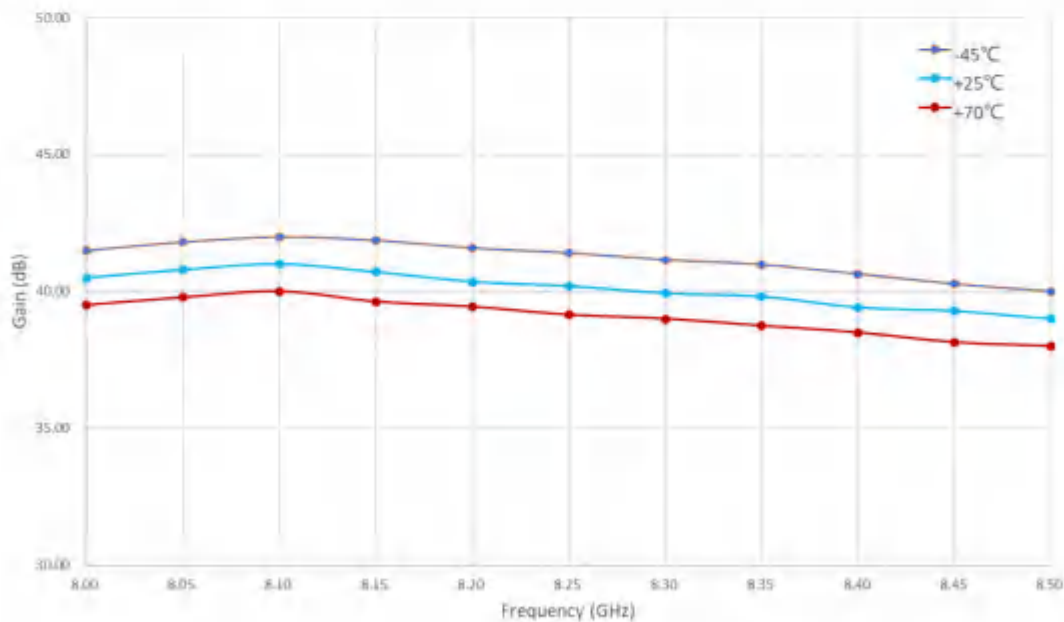


Figure 2: RFPA-0800-0850-48 Small Signal Gain Vs Temperature

Input VSWR

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

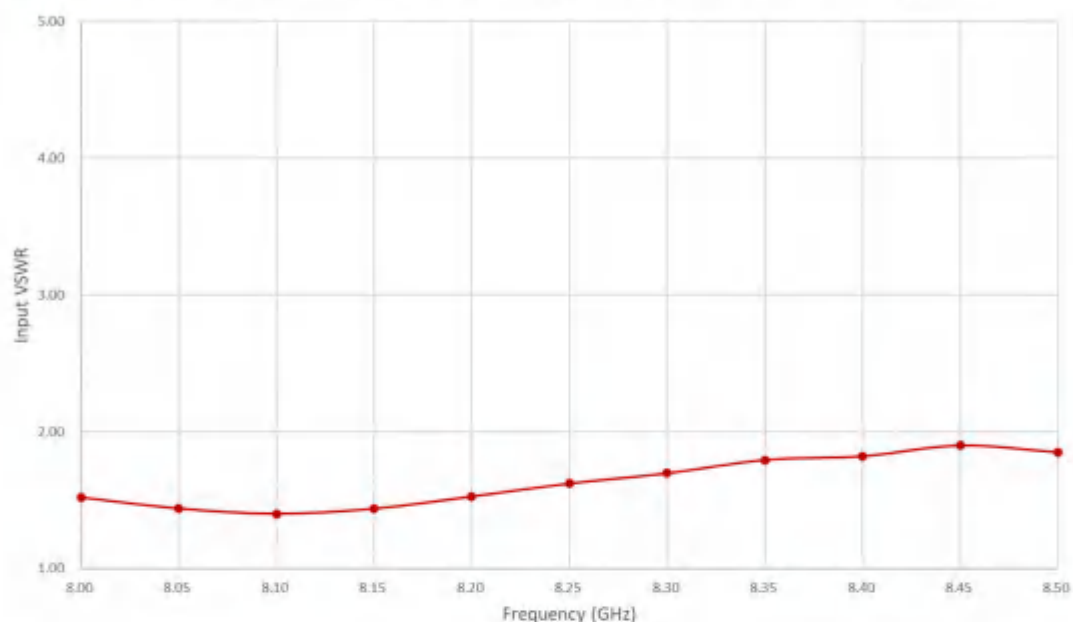


Figure 3: RFPA-0800-0850-48 Input VSWR

P.A.E

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

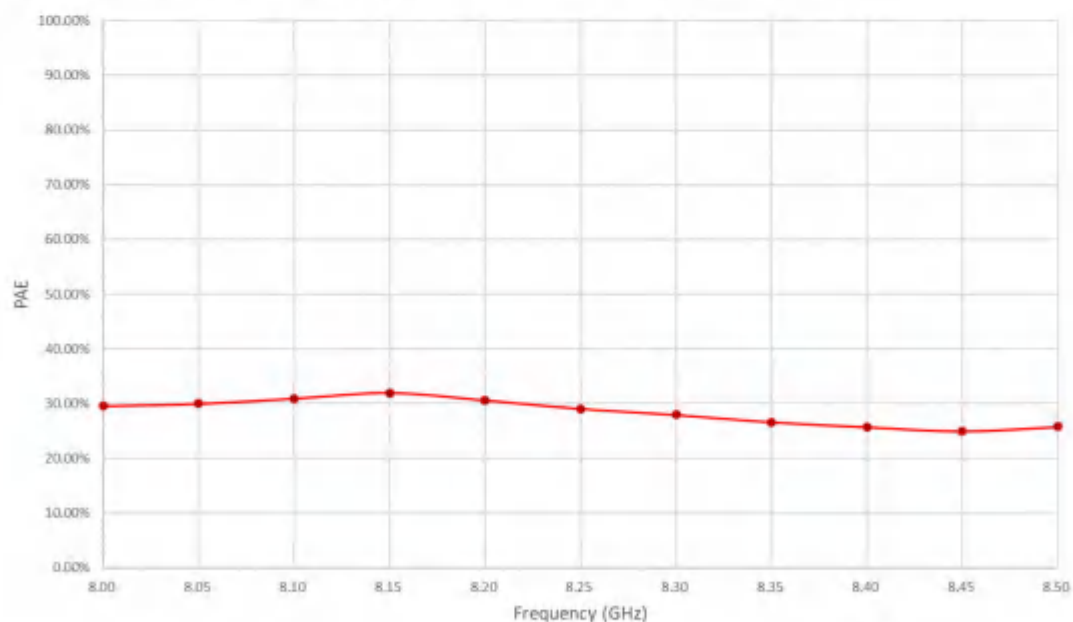


Figure 4: RFPA-0800-0850-48 P.A.E

Absolute Maximum Ratings

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

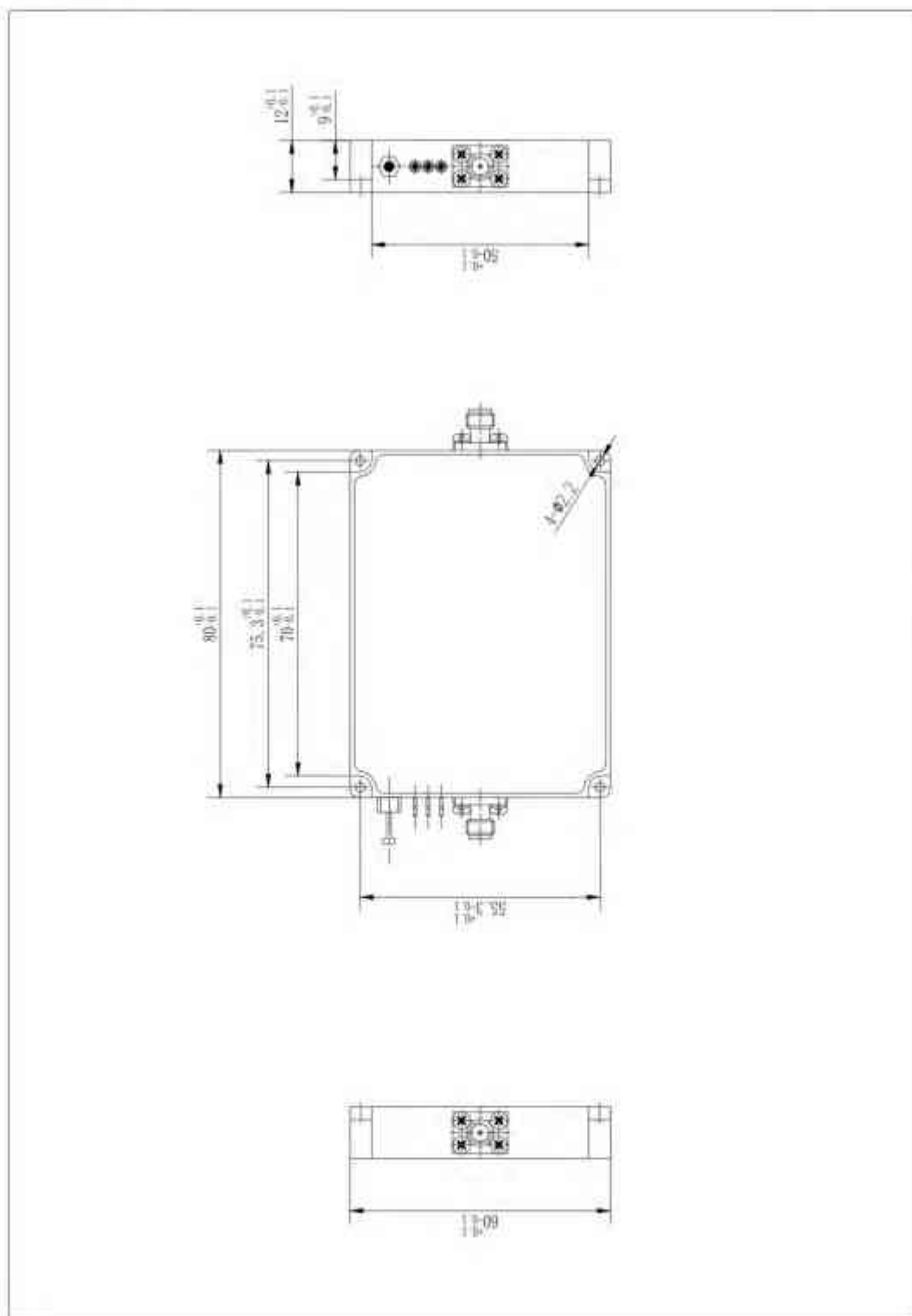
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

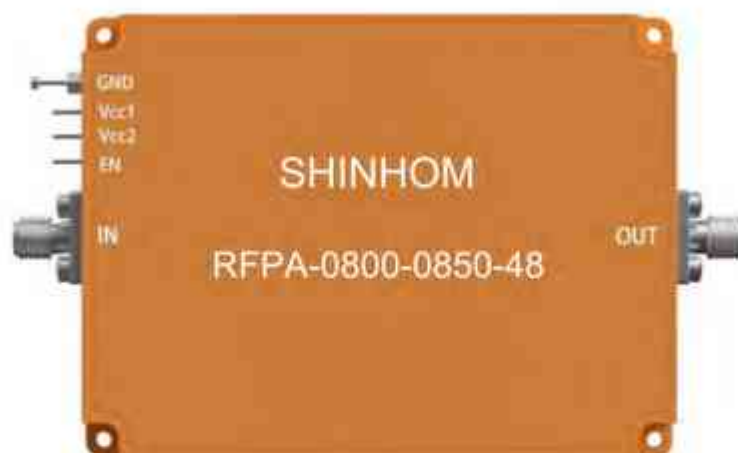
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

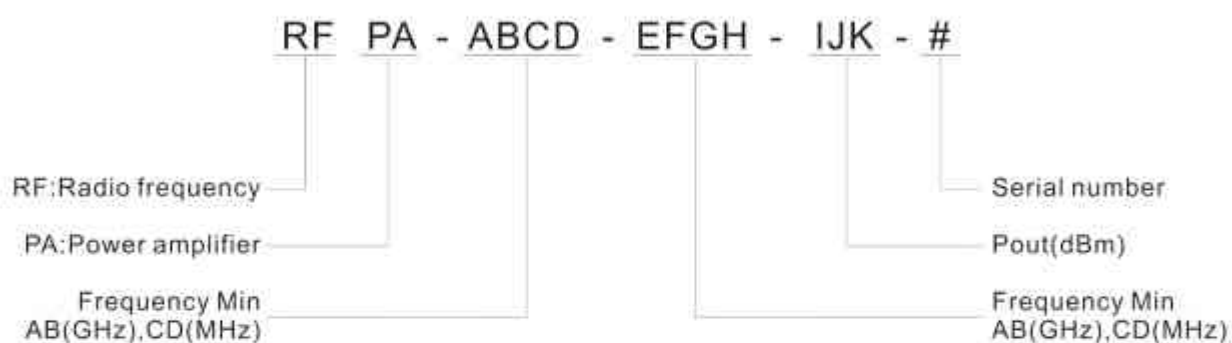




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 8.5 to 9.6 GHz.
- Typical values: Pout 47 dBm, Gain 40 dB
- Power Added Efficiency: 25%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0850-0960-47

The RFPA-0850-0960-47 is a High Power Amplifier providing an output power of 47 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	Typ	Max	
Frequency	8.5	-	9.6	GHz
Output Power		47		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 °C			
Storage Temperature	-55 to 125 °C			

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.

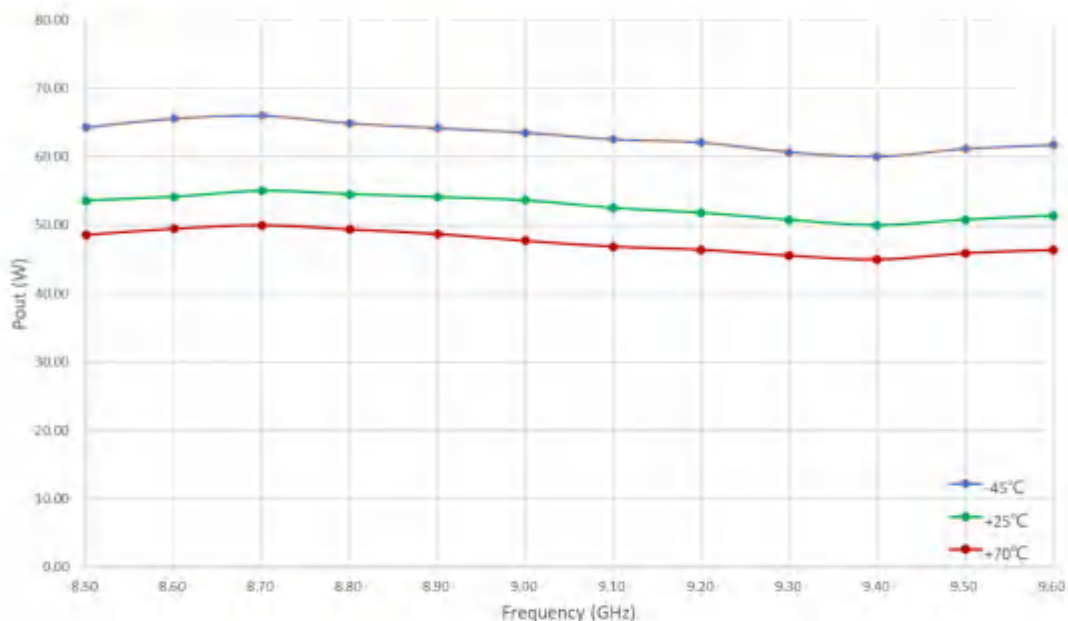


Figure 1: RFP-0850-0960-47 Psat

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.

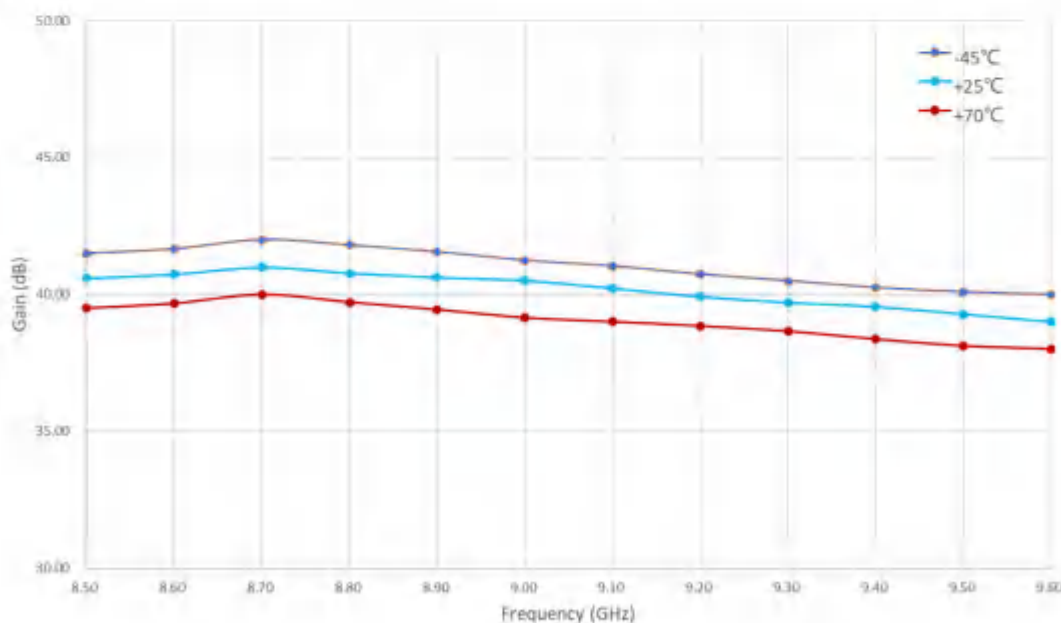


Figure 2: RFP-0850-0960-47 Small Signal Gain Vs Temperature

Input VSWR

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

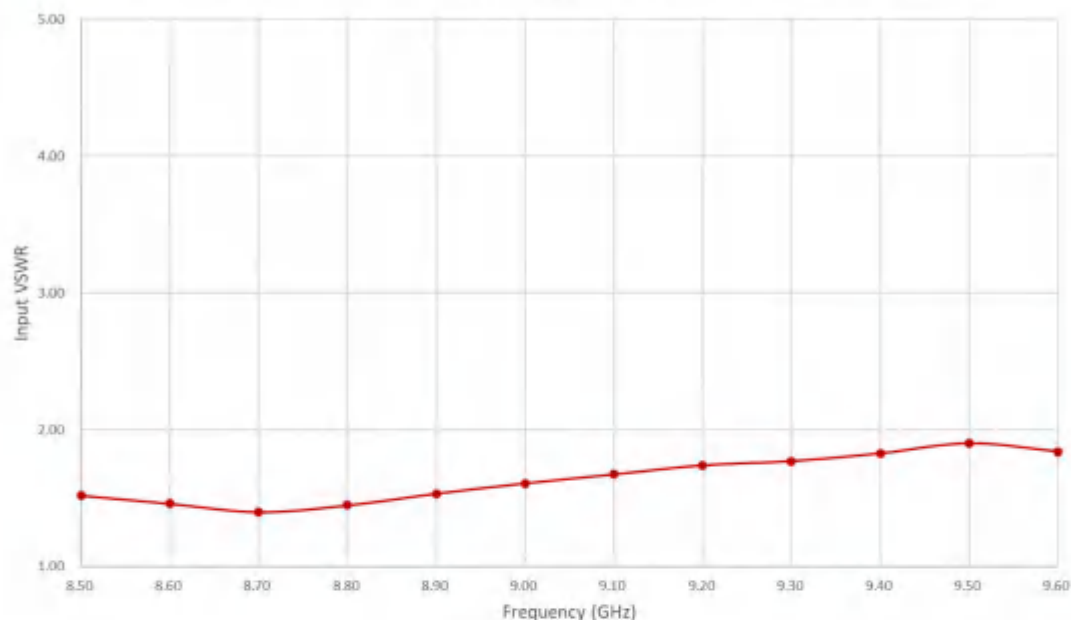


Figure 3: RFPA-0850-0960-47 Input VSWR

P.A.E

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

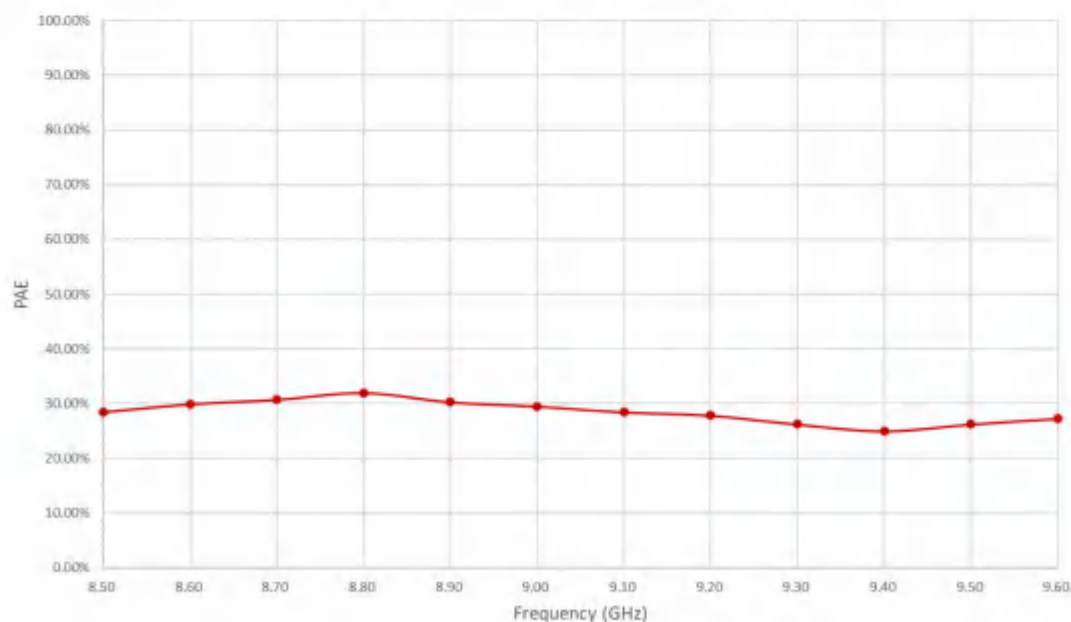


Figure 4: RFPA-0850-0960-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

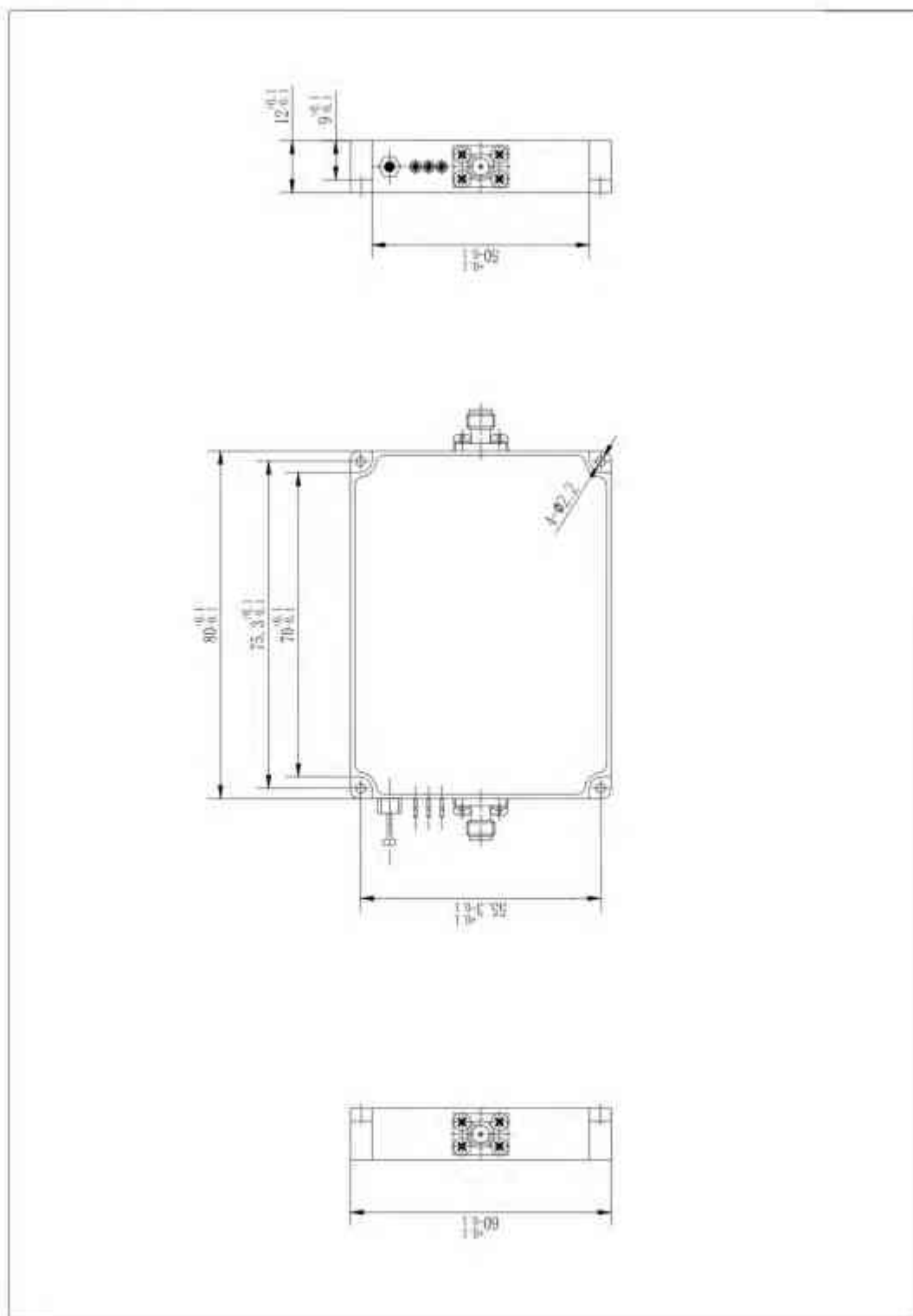
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

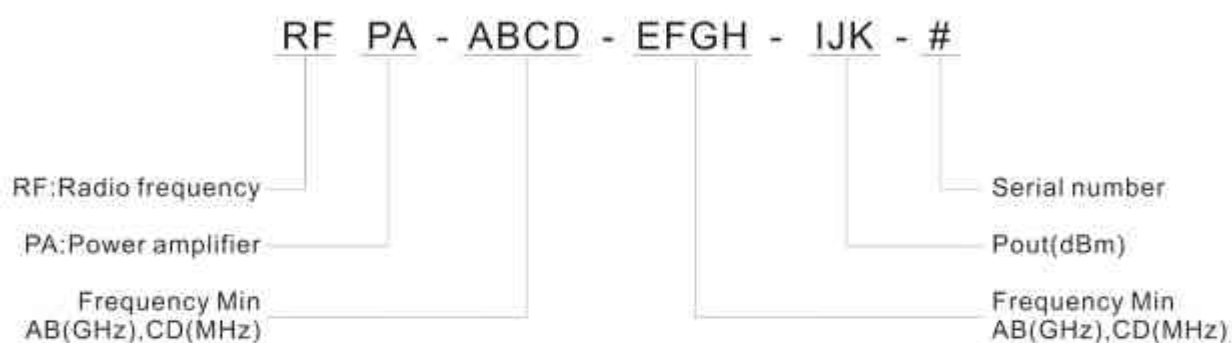




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 9.0 to 10.0 GHz.
- Typical values: Pout 47 dBm, Gain 40 dB
- Power Added Efficiency: 25%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFPA-0900-1000-47

The RFPA-0900-1000-47 is a High Power Amplifier providing an output power of 47 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	Typ	Max	
Frequency	9.0	-	10.0	GHz
Output Power		47		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 °C			
Storage Temperature	-55 to 125 °C			

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.

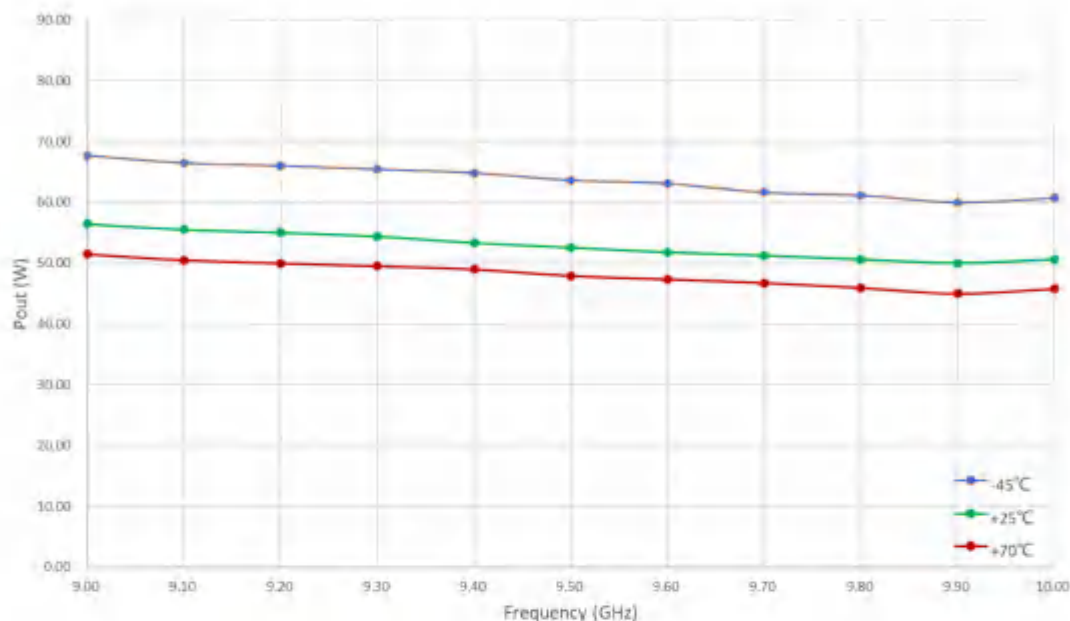


Figure 1: RFP-0900-1000-47 Psat

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.

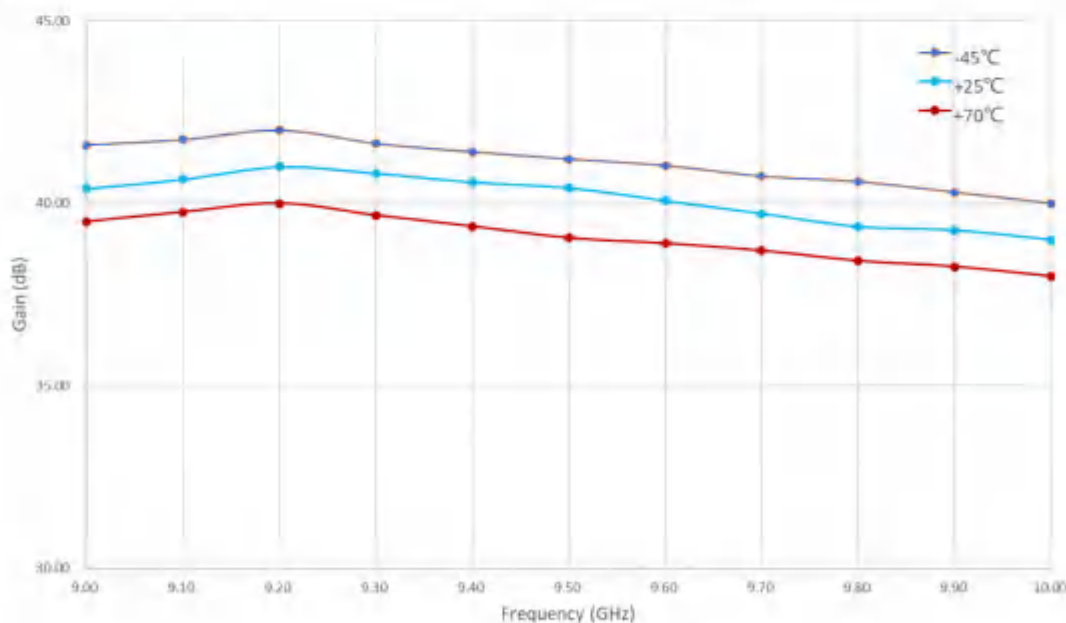


Figure 2: RFP-0900-1000-47 Small Signal Gain Vs Temperature

Input VSWR

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

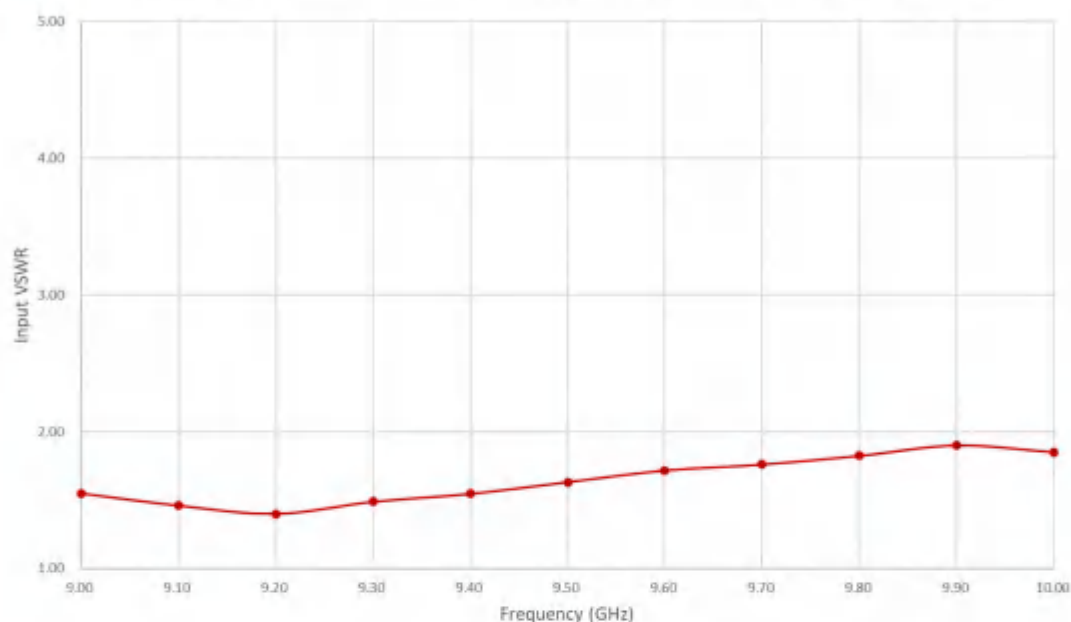


Figure 3: RFP A-0900-1000-47 Input VSWR

P.A.E

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

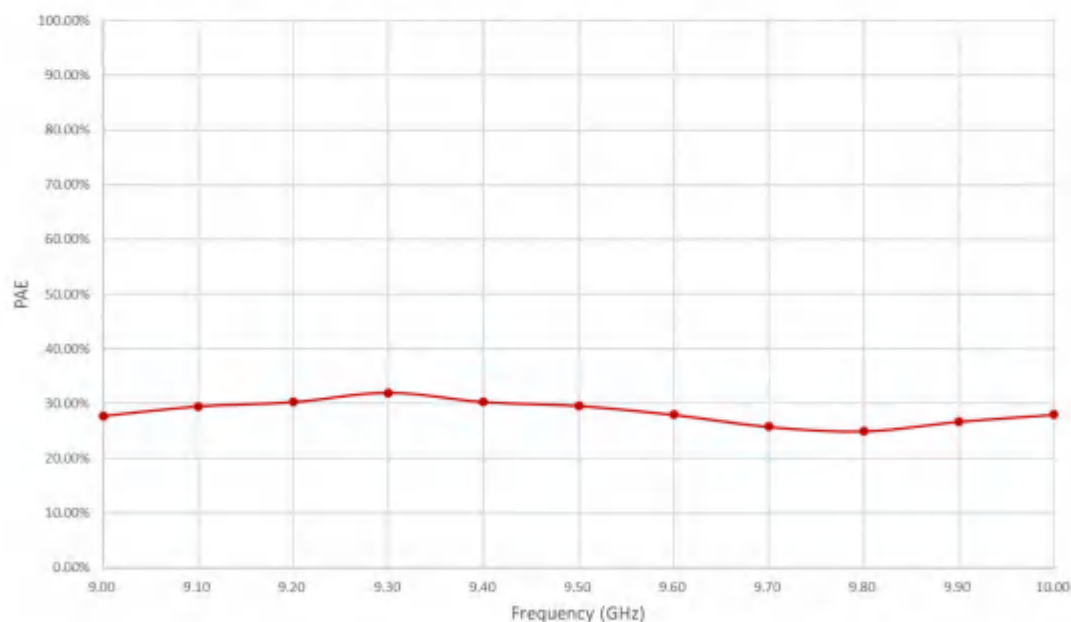


Figure 4: RFP A-0900-1000-47 P.A.E

Absolute Maximum Ratings

Condition	Value
DC Voltage	+35 VDC
Maximum Input Power (CW)	+15 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

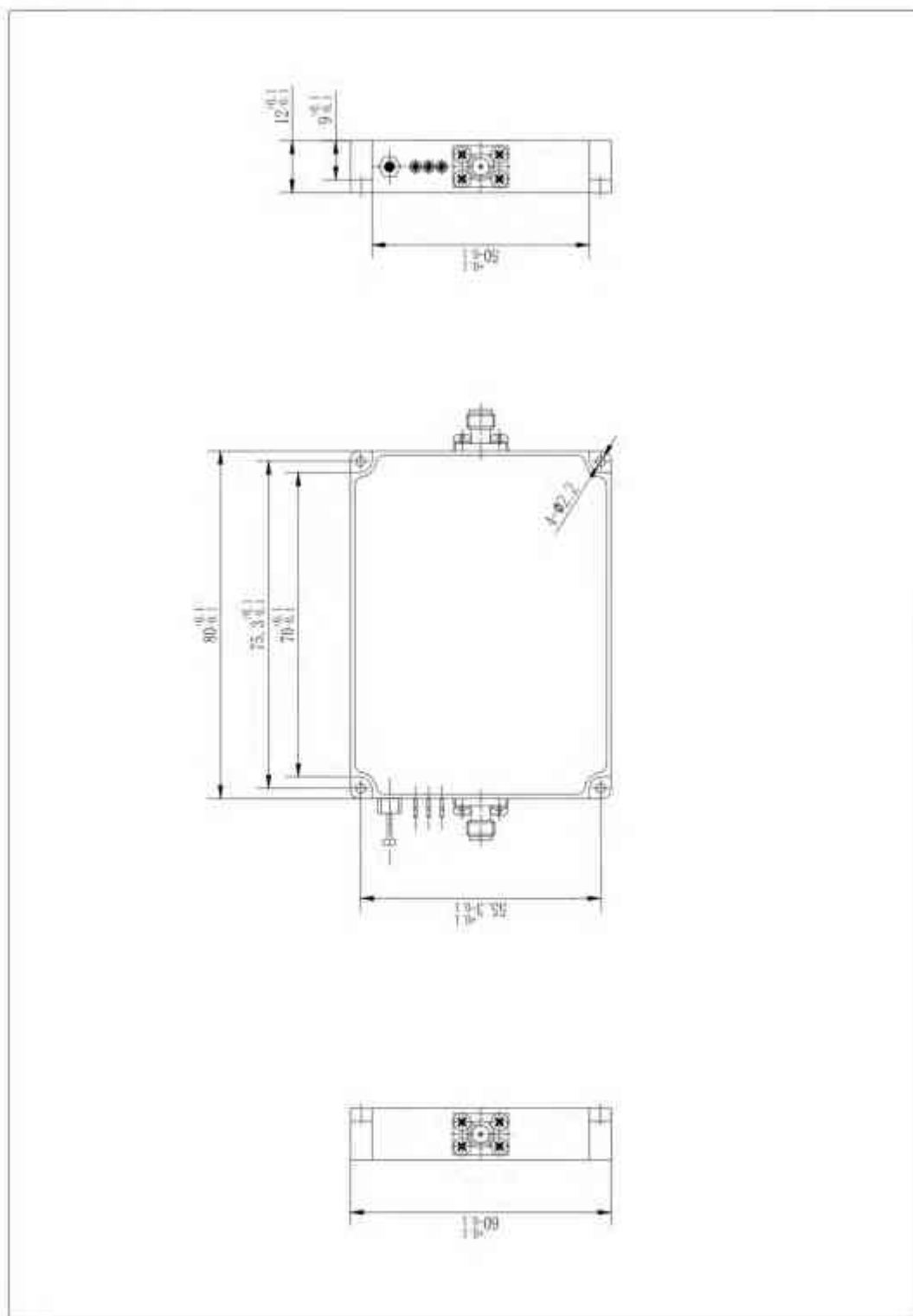
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

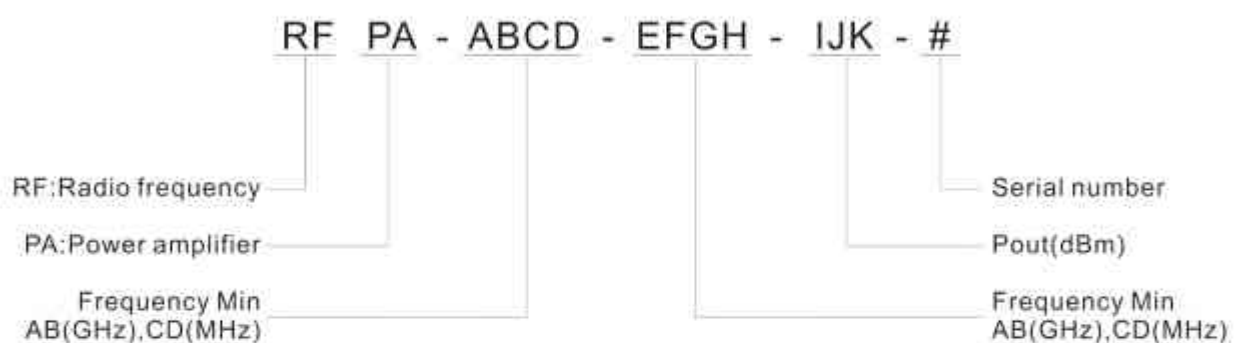




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 9.5 to 10.5 GHz.
- Typical values: Pout 48 dBm, Gain 40 dB
- Power Added Efficiency: 20%
- Gain Flatness ± 1 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

RFP A-0950-1050-48

The RFP A-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	Typ	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 °C			
Storage Temperature	-55 to 125 °C			

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.

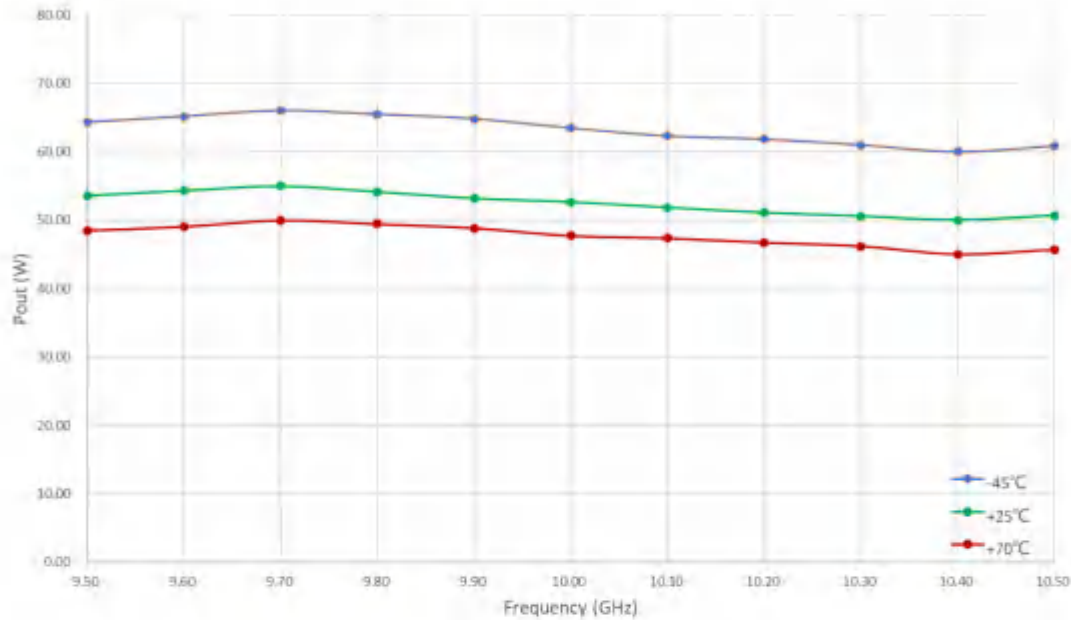


Figure 1: RFP-0950-1050-48 Psat

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.

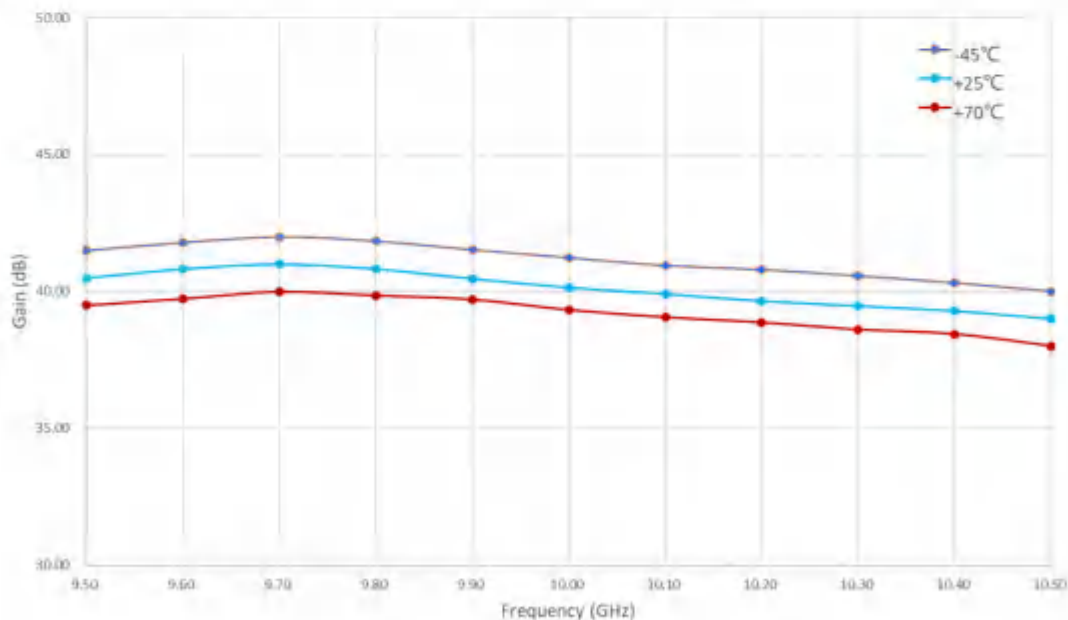


Figure 2: RFP-0950-1050-48 Small Signal Gain Vs Temperature

Input VSWR

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

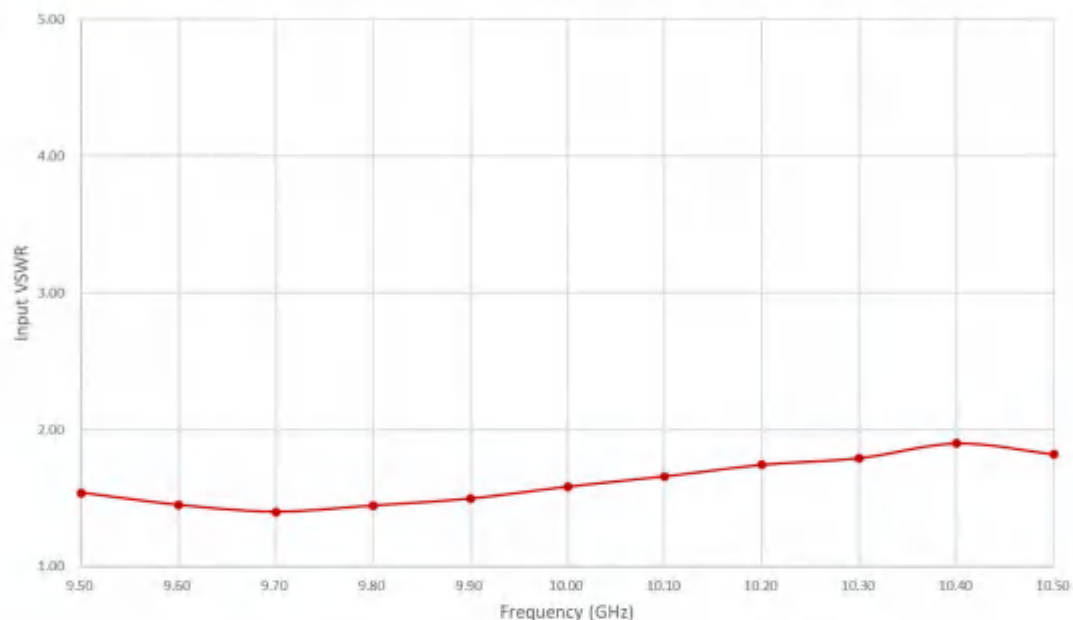


Figure 3: RFPA-0950-1050-48 Input VSWR

P.A.E

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

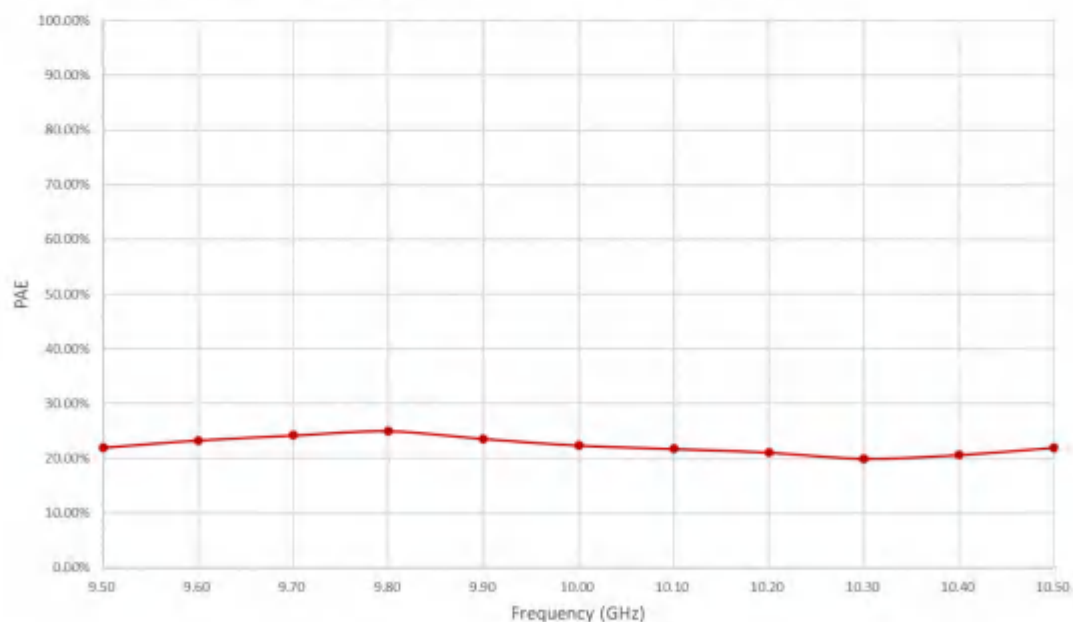


Figure 4: RFPA-0950-1050-48 P.A.E

Absolute Maximum Ratings

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

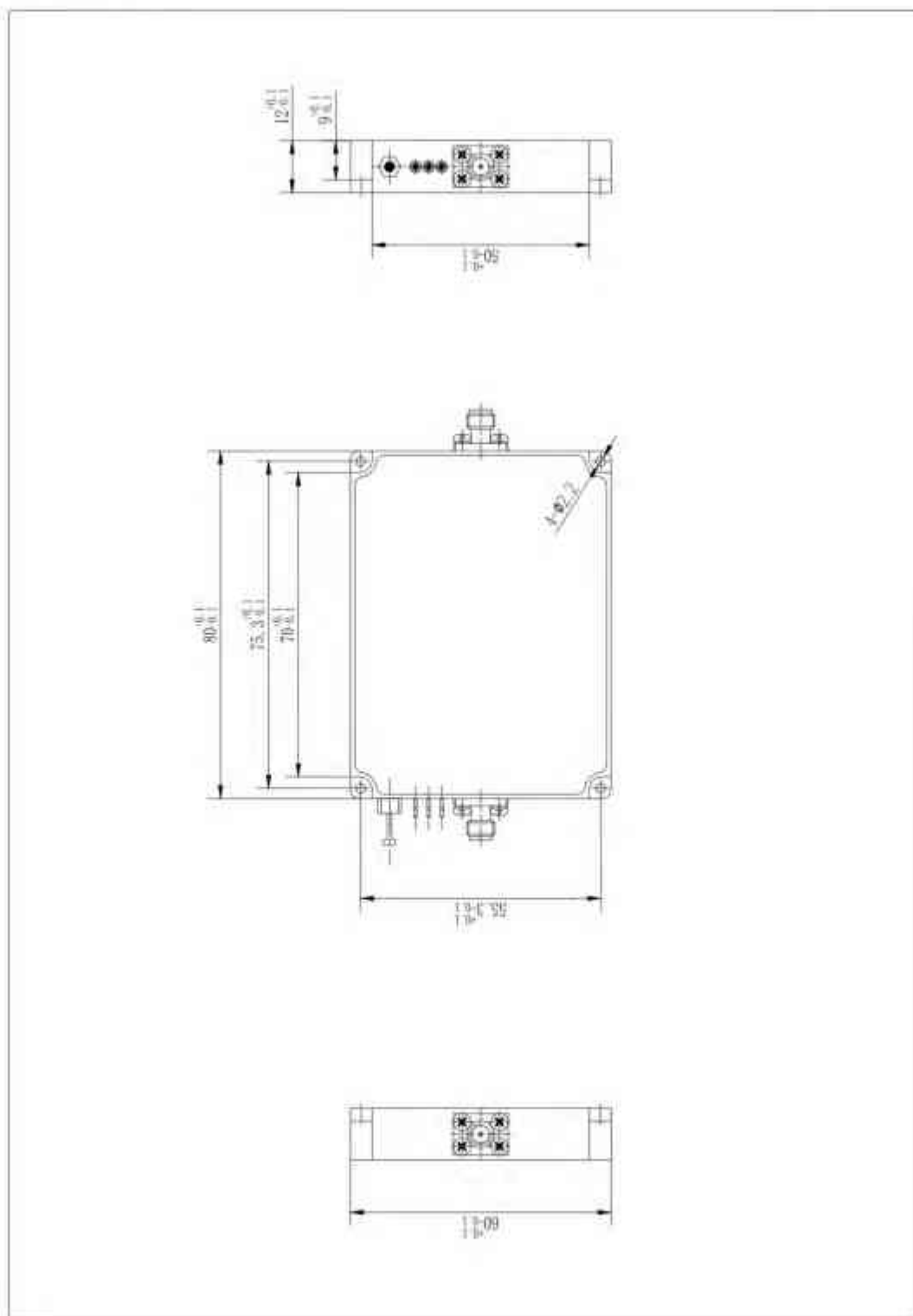
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing

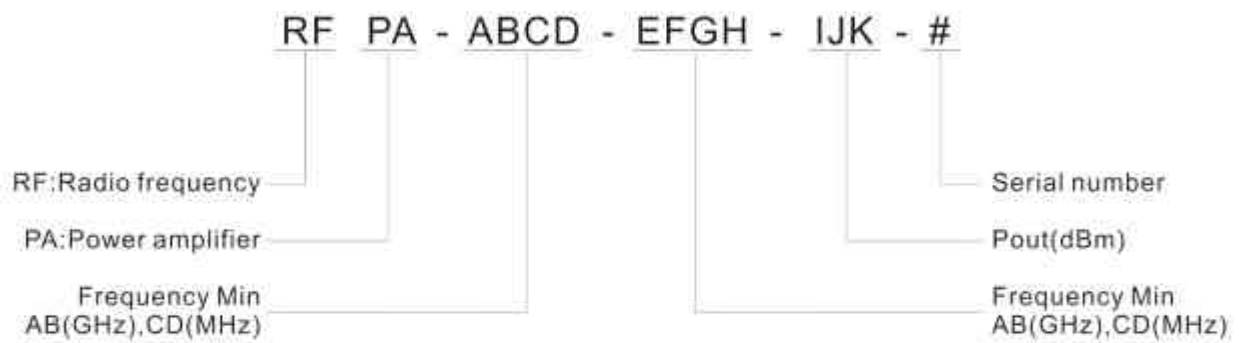




Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc1	DC Supply +28V
Vcc2	DC Supply +28V
EN	ENABLE (can be used for pulse modulation)

Model Number Codification

Model Number





Main Features:

- Frequency Range: 0.2 to 2.0 GHz.
- P-1(dB): 13 dBm
- Typical values: NF 1.8 dB, Gain 40 dB
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFLNA-0020-0200-13

The RFLNA-0020-0200-13 is a Low Noise Amplifier providing a gain of 40 dB and a noise figure of 1.8 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	0.2	-	2.0	GHz
Output Power (P1dB)		13		dBm
Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	-	dB
Noise Figure		1.8		dB
VSWR input	1.3	-	1.8	-
VSWR output	1.3		1.8	
DC Voltage		5		V
Current		150		mA
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

Specifications at a case temperature of 25°C at 5 V

Noise Figure

Figure 1 shows noise figure measurement as a function of frequency at environment temperature (25°C).

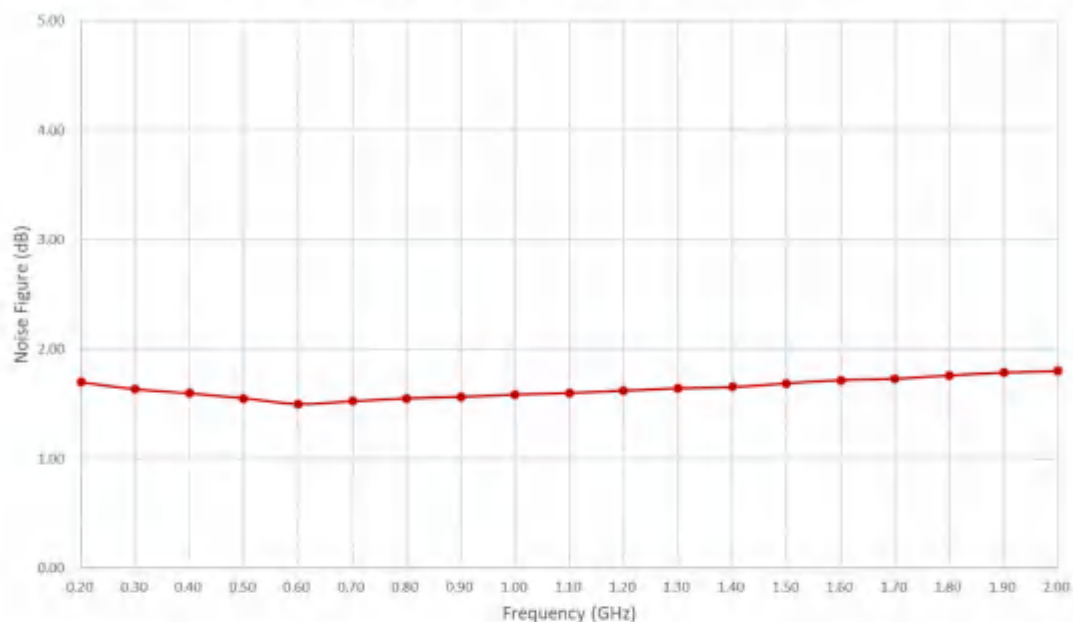


Figure 1: RFLNA-0020-0200-13 Noise Figure

Output Power at 1 dB Compression

Figure 2 shows output power at 1dB compression measurement as a function of frequency at environment temperature (25°C).

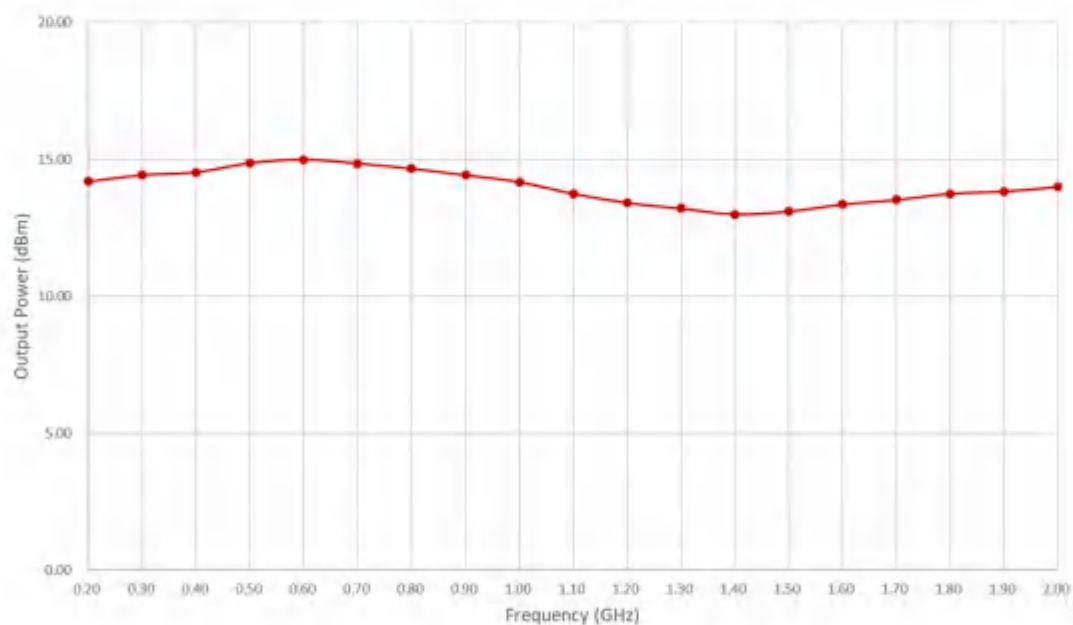


Figure 2: RFLNA-0020-0200-13 P1dB

Small Signal Gain Vs Temperature

Figure 3 shows small signal gain measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

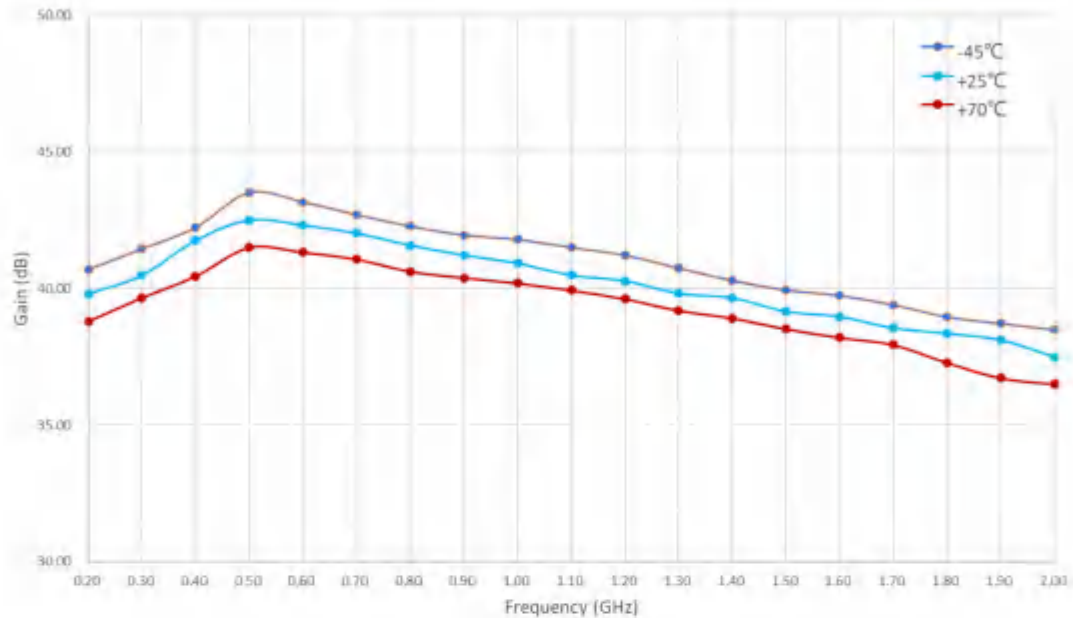


Figure 3: RFLNA-0020-0200-13 Small Signal Gain Vs Temperature

Input and Output VSWR

Figure 4 and Figure 5 show input (S11) and output (S22) VSWR as a function of frequency at environment temperature (25°C).

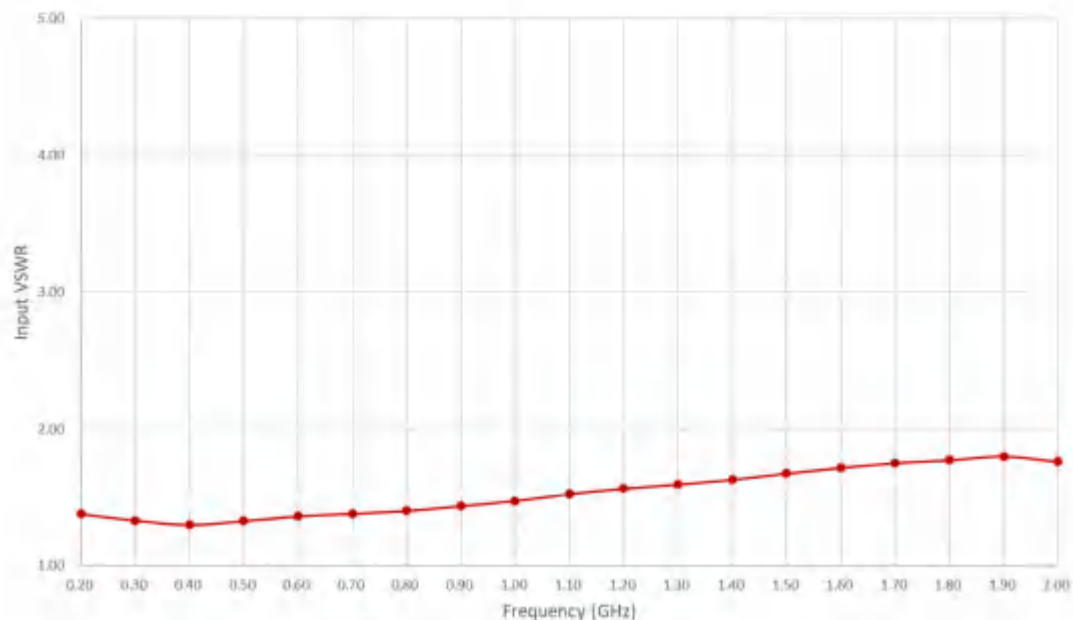


Figure 4: RFLNA-0020-0200-13 Input VSWR

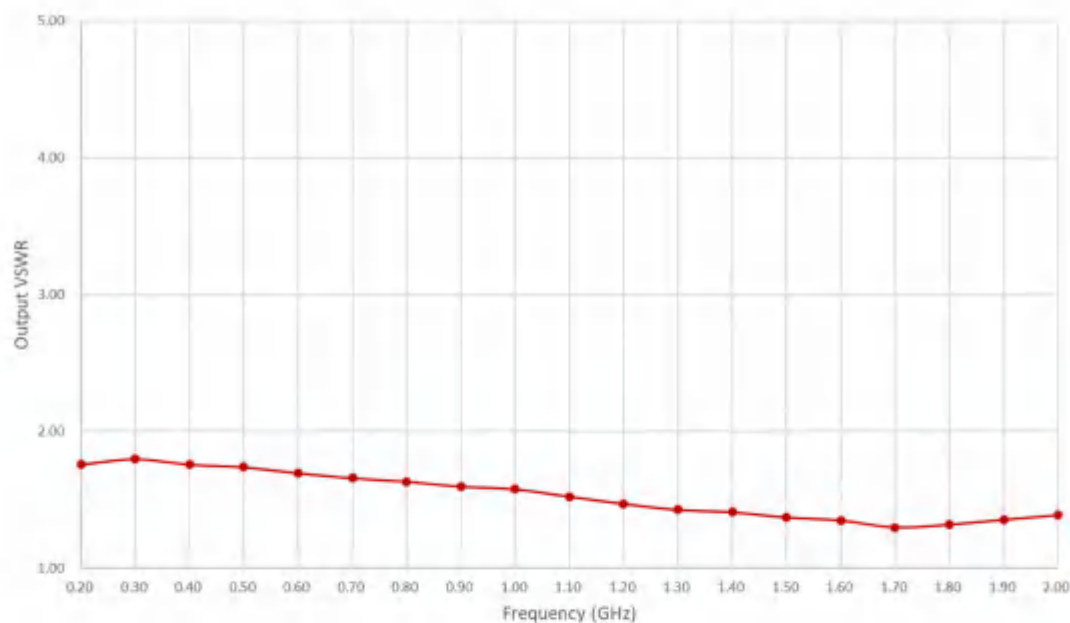


Figure 5: RFLNA-0020-0200-13 Output VSWR

Absolute Maximum Ratings

Condition	Value
DC Voltage	+5.5 VDC
Maximum Input Power (CW)	+10 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

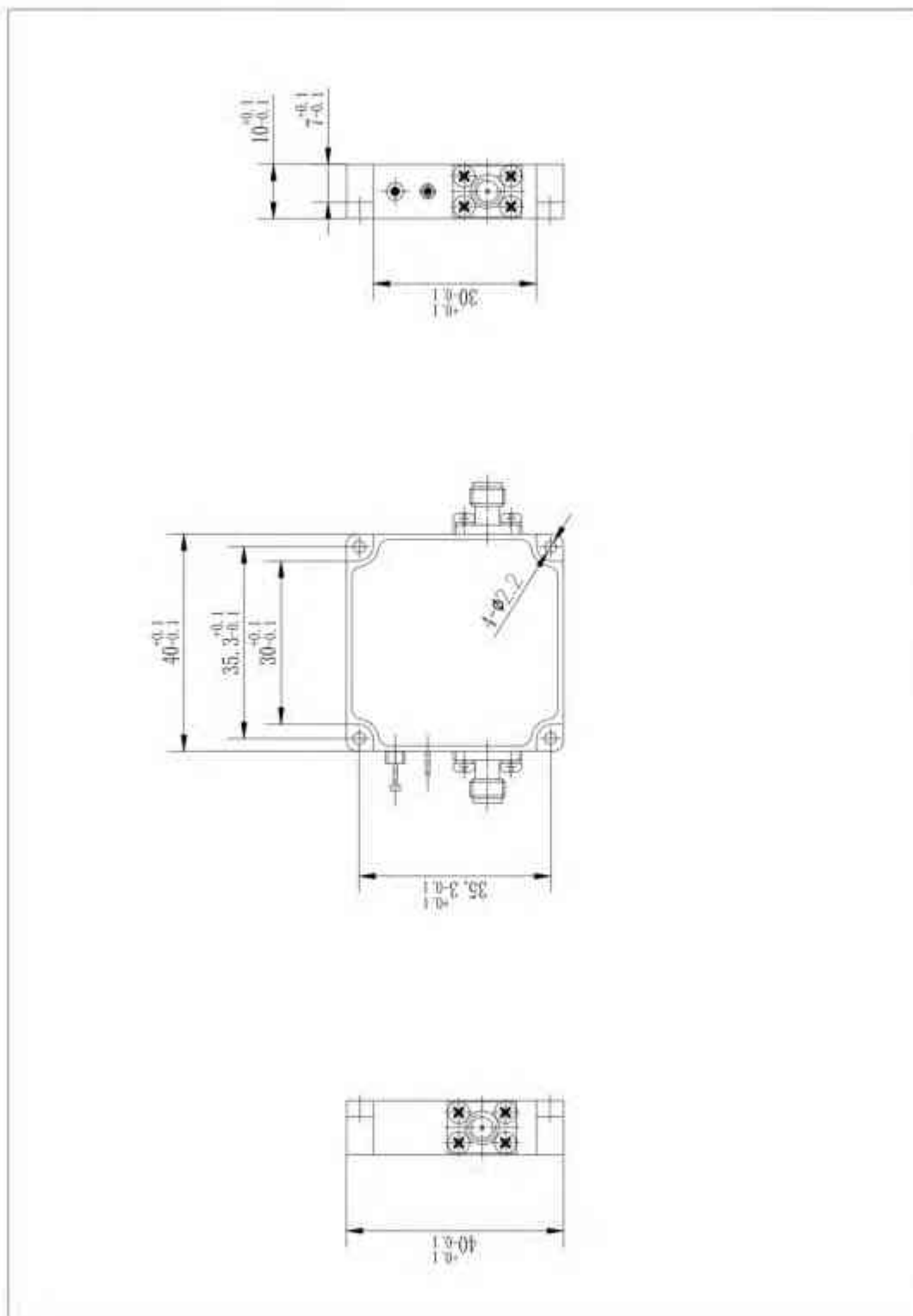
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing





Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +5V

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 6.0 GHz.
- P-1(dB): 15 dBm
- Typical values: NF 1.4 dB, Gain 41 dB
- Gain Flatness ± 1.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFLNA-0200-0600-15

The RFLNA-0200-0600-15 is a Low Noise Amplifier providing a gain of 41 dB and a noise figure of 1.4 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	2.0	-	6.0	GHz
Output Power (P1dB)		15		dBm
Gain	39.5	41	42.5	dB
Gain Flatness	-	± 1.5	-	dB
Noise Figure		1.4		dB
VSWR input	1.3	-	1.8	-
VSWR output	1.3		1.8	
DC Voltage		5		V
Current		120		mA
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

Specifications at a case temperature of 25°C at 5 V

Noise Figure

Figure 1 shows noise figure measurement as a function of frequency at environment temperature (25°C).

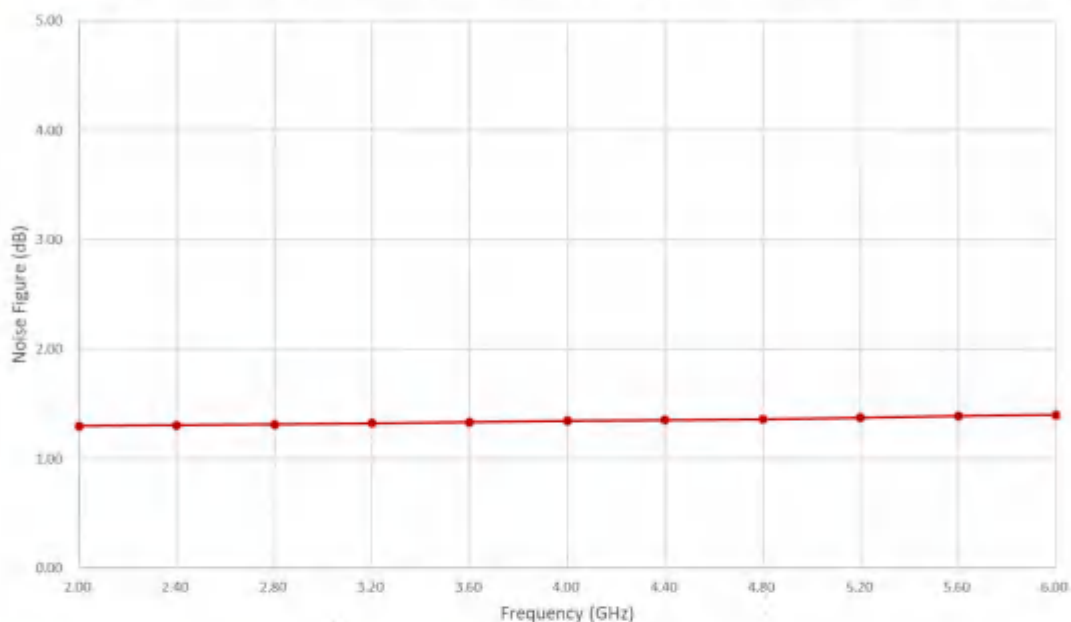


Figure 1: RFLNA-0200-0600-15 Noise Figure

Output Power at 1 dB Compression

Figure 2 shows output power at 1dB compression measurement as a function of frequency at environment temperature (25°C).

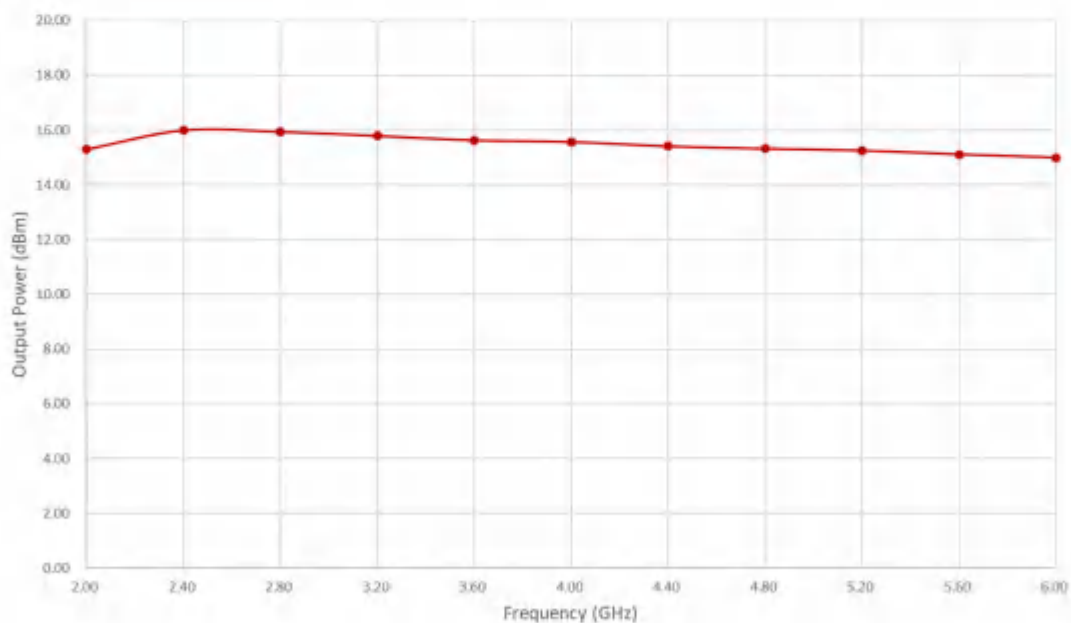


Figure 2: RFLNA-0200-0600-15 P1dB

Small Signal Gain Vs Temperature

Figure 3 shows small signal gain measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

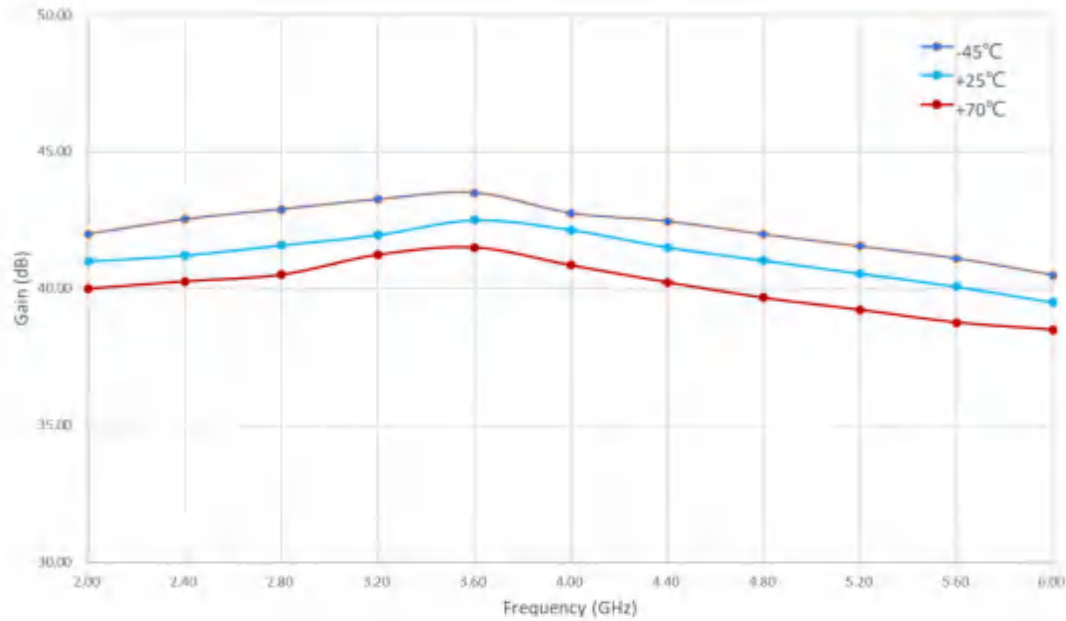


Figure 3: RFLNA-0200-0600-15 Small Signal Gain Vs Temperature

Input and Output VSWR

Figure 4 and Figure 5 show input (S11) and output (S22) VSWR as a function of frequency at environment temperature (25°C).

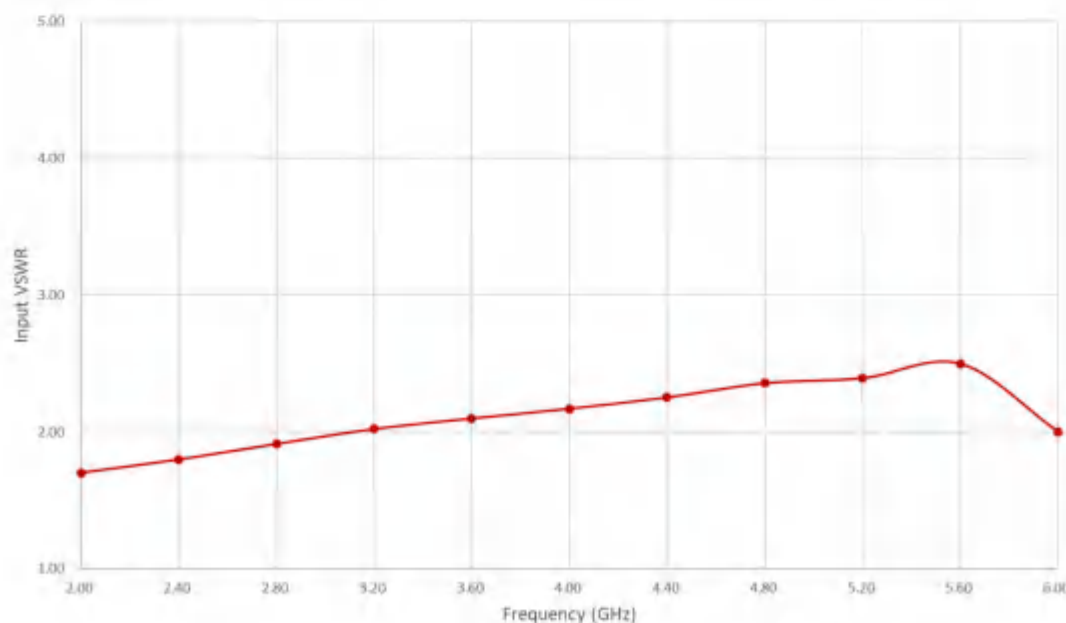


Figure 4: RFLNA-0200-0600-15 Input VSWR

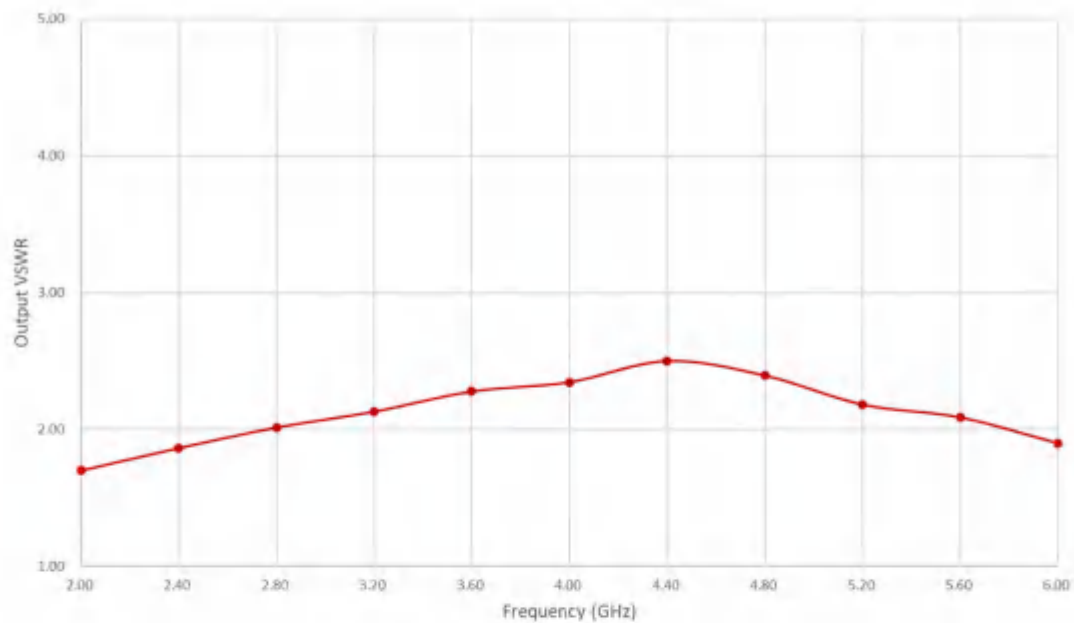


Figure 5: RFLNA-0200-0600-15 Output VSWR

Absolute Maximum Ratings

Condition	Value
DC Voltage	+5.5 VDC
Maximum Input Power (CW)	+10 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

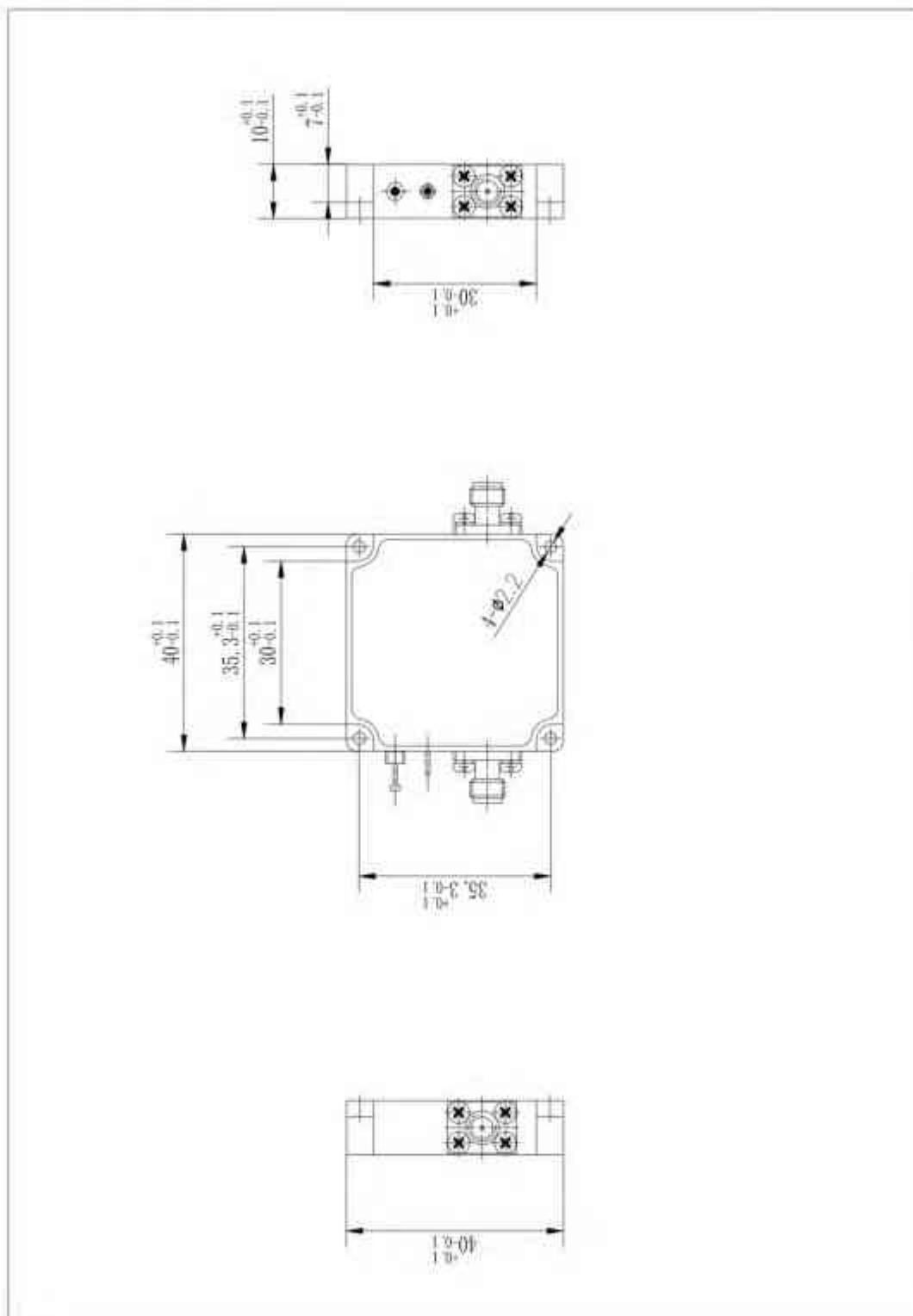
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing



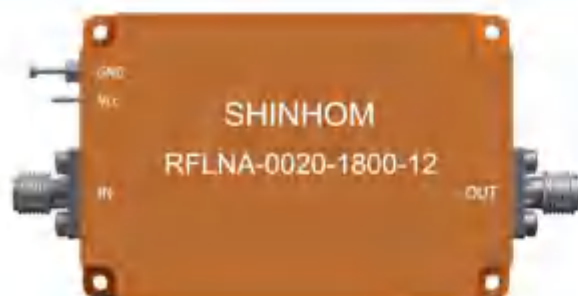


Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +5V

Model Number Codification

Model Number





Main Features:

- Frequency Range: 2.0 to 18.0 GHz.
- P-1(dB): 12 dBm
- Typical values: NF 3 dB, Gain 40 dB
- Gain Flatness ± 2.5 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

RFLNA-0200-1800-12

The RFLNA-0200-1800-12 is a Low Noise Amplifier providing a gain of 40 dB and a noise figure of 3 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	2.0	-	18.0	GHz
Output Power (P1dB)		12		dBm
Gain	37.5	40	42.5	dB
Gain Flatness	-	± 2.5	-	dB
Noise Figure		3		dB
VSWR input	1.4	-	1.9	-
VSWR output	1.4		1.9	
DC Voltage		5		V
Current		160		mA
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

Specifications at a case temperature of 25°C at 5 V

Noise Figure

Figure 1 shows noise figure measurement as a function of frequency at environment temperature (25°C).

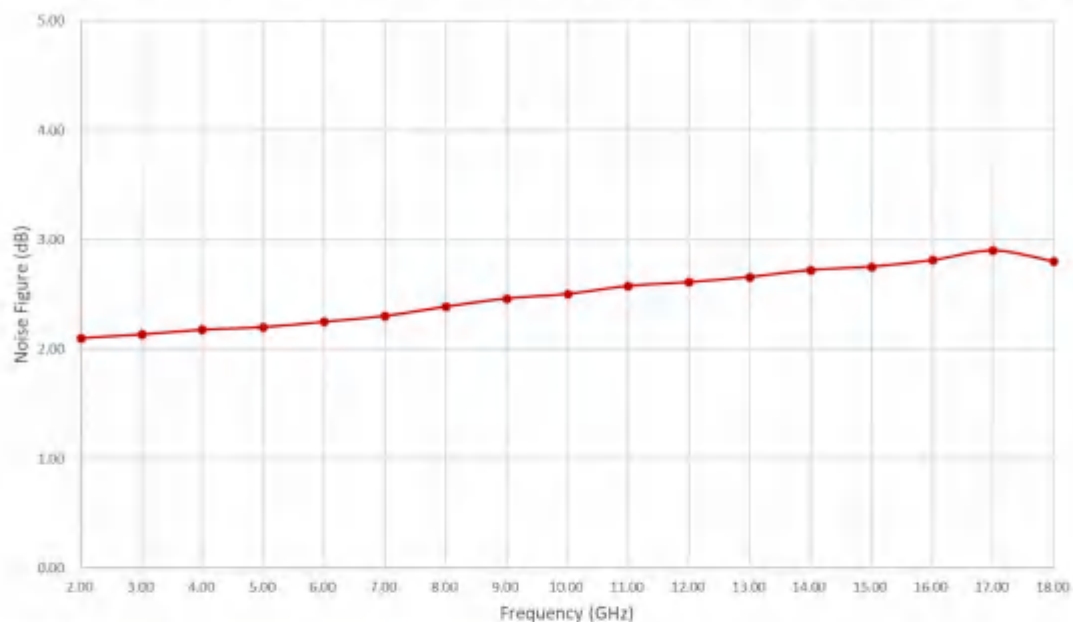


Figure 1: RFLNA-0200-1800-12 Noise Figure

Output Power at 1 dB Compression

Figure 2 shows output power at 1dB compression measurement as a function of frequency at environment temperature (25°C).

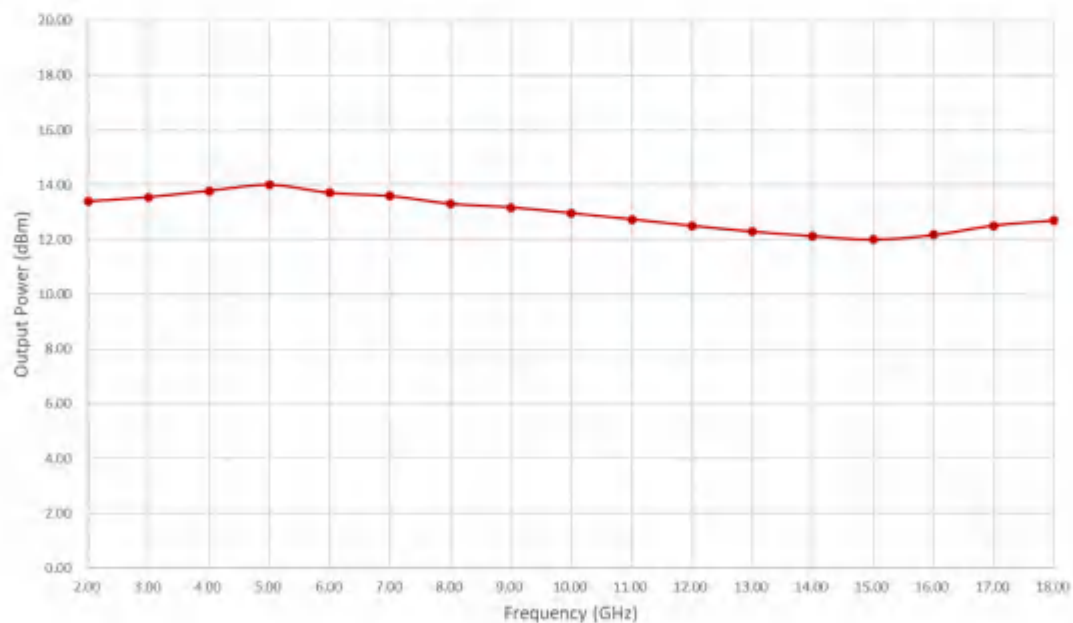


Figure 2: RFLNA-0200-1800-12 P1dB

Small Signal Gain Vs Temperature

Figure 3 shows small signal gain measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

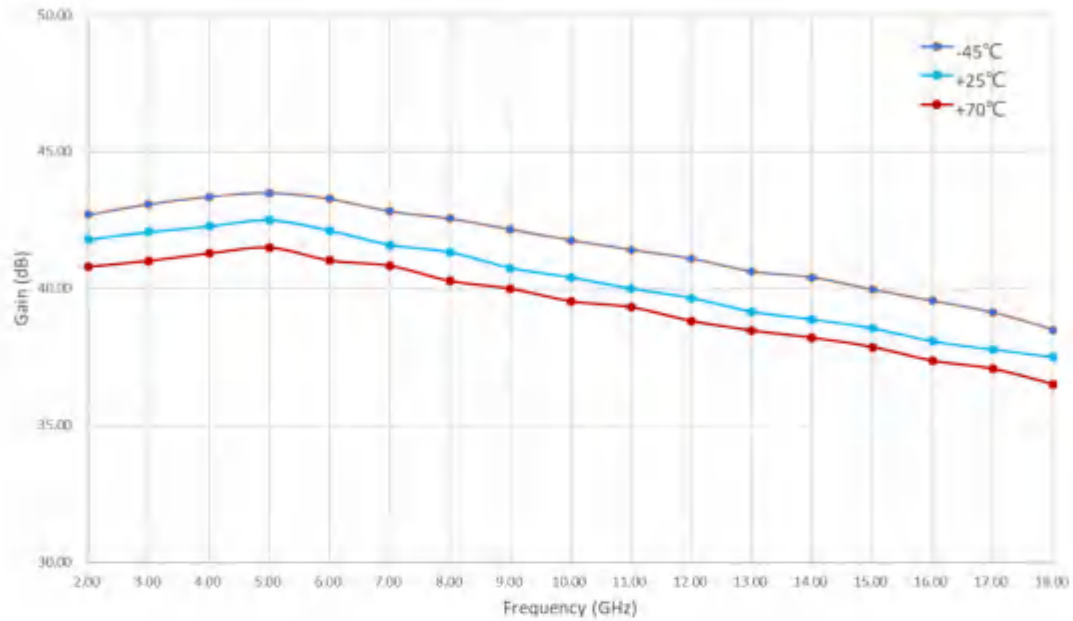


Figure 3: RFLNA-0200-1800-12 Small Signal Gain Vs Temperature

Input and Output VSWR

Figure 4 and Figure 5 show input (S11) and output (S22) VSWR as a function of frequency at environment temperature (25°C).

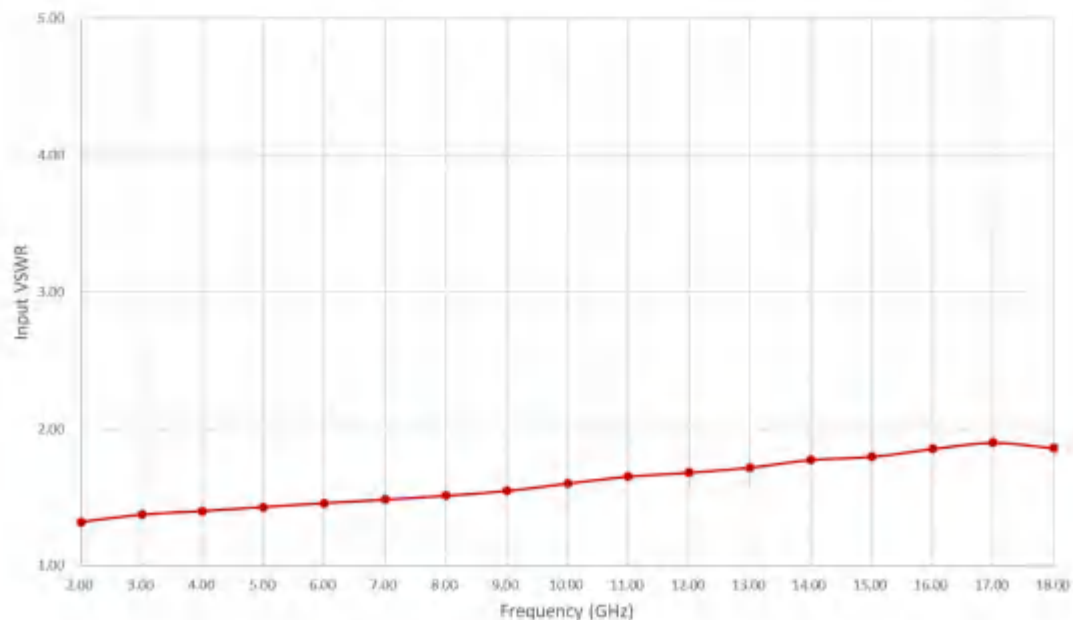


Figure 4: RFLNA-0200-1800-12 Input VSWR

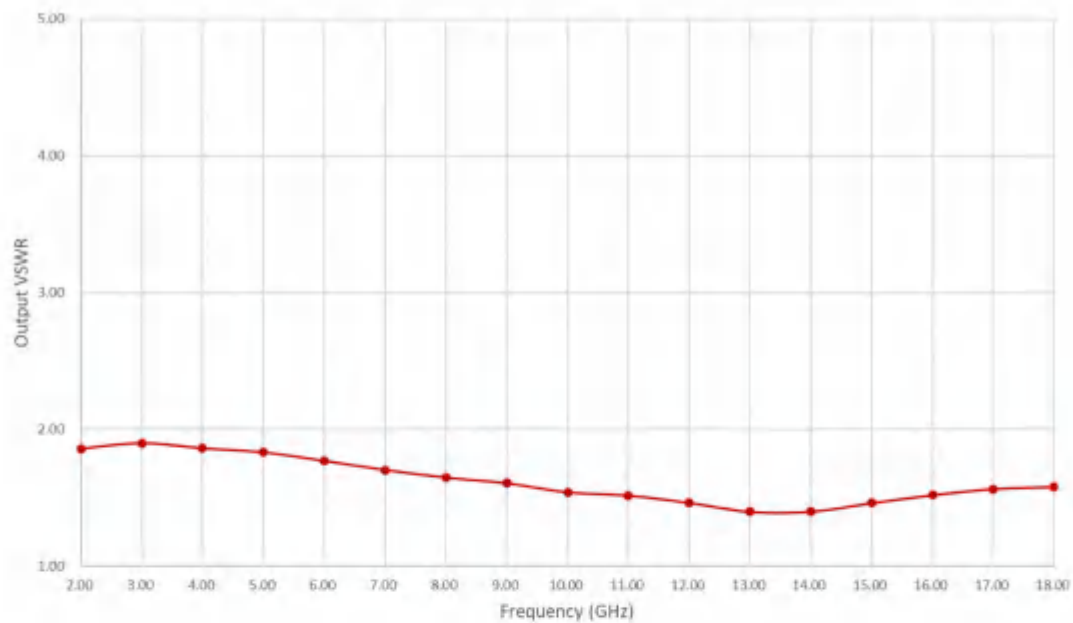


Figure 5: RFLNA-0200-1800-12 Output VSWR

Absolute Maximum Ratings

Condition	Value
DC Voltage	+5.5 VDC
Maximum Input Power (CW)	+10 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

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

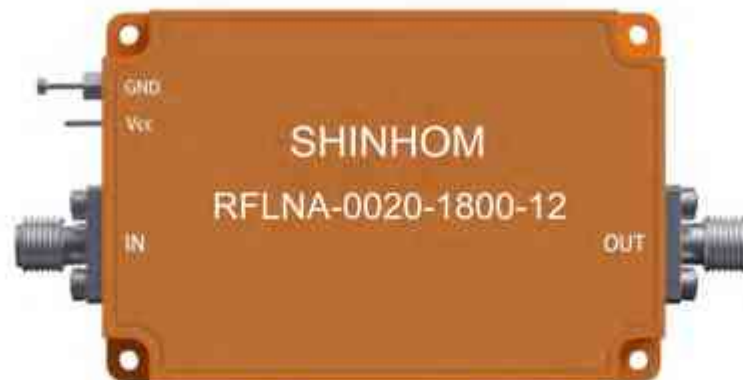
Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Technical drawing of a rectangular plate with dimensions and tolerances:

- Overall width: $40^{+0.1}_{-0}$
- Overall height: $60^{+0.1}_{-0}$
- Inner width: $35.3^{+0.1}_{-0}$
- Inner height: $50^{+0.1}_{-0}$
- Top edge features:
 - Distance from top edge to first hole: $10^{+0.1}_{-0}$
 - Distance between first two holes: $7^{+0.1}_{-0}$
 - Distance from last hole to top edge: $3^{+0.1}_{-0}$
- Bottom edge features:
 - Distance from bottom edge to first hole: $3^{+0.1}_{-0}$
 - Distance between first two holes: $3^{+0.1}_{-0}$
 - Distance from last hole to bottom edge: $3^{+0.1}_{-0}$
- Top edge detail: $1-\varnothing 2.2$



Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +5V

Model Number Codification

Model Number





Main Features:

- Frequency Range: 6.0 to 18.0 GHz.
- P-1(dB): 15 dBm
- Typical values: NF 2 dB, Gain 42 dB
- Gain Flatness ± 2 dB typ
- RF connectors (I/O): SMA Female
- Several mounting options

Typical applications:

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

PLNA-0600-1800-15

The PLNA-0600-1800-15 is a Low Noise Amplifier providing a gain of 42 dB and a noise figure of 2 dB. The compact size and modularity makes it ideal for a wide range of applications.

Performance

Parameter	Value			Units
	Min	Typ	Max	
Frequency	6.0	-	18.0	GHz
Output Power (P1dB)		15		dBm
Gain	40	42	44	dB
Gain Flatness	-	± 2	-	dB
Noise Figure		2		dB
VSWR input	1.3	-	1.8	-
VSWR output	1.3		1.8	
DC Voltage		5		V
Current		160		mA
RF Connectors	SMA Female IN/OUT			
Operating Temperature	-45 to +85 °C			
Storage Temperature	-55 to 125 °C			

Specifications at a case temperature of 25°C at 5 V

Noise Figure

Figure 1 shows noise figure measurement as a function of frequency at environment temperature (25°C).

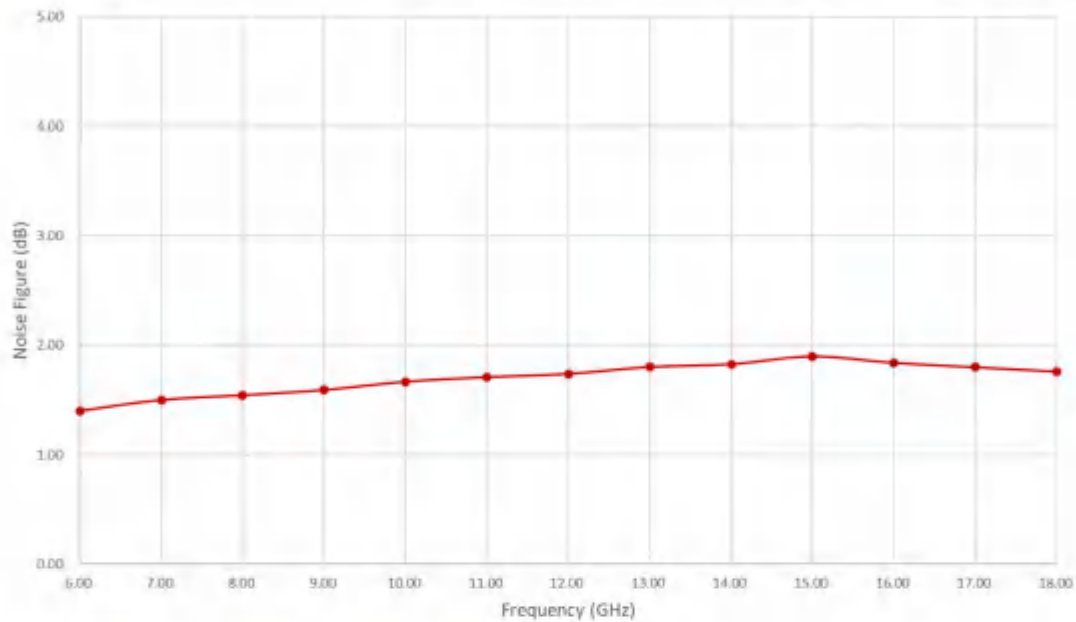


Figure 1: RFLNA-0600-1800-15 Noise Figure

Output Power at 1 dB Compression

Figure 2 shows output power at 1dB compression measurement as a function of frequency at environment temperature (25°C).

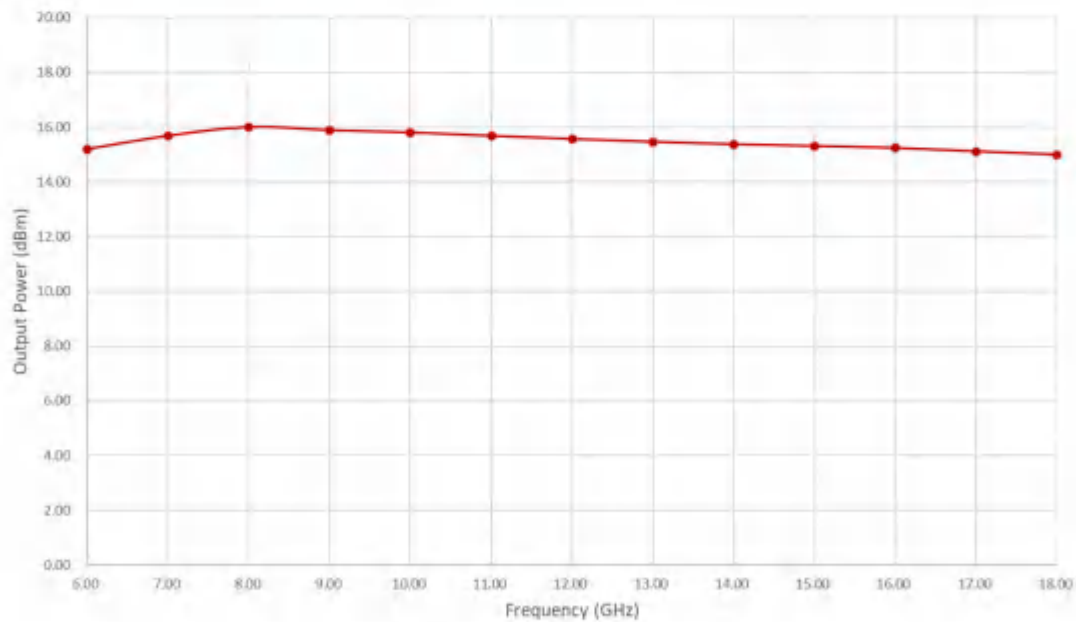


Figure 2: RFLNA-0600-1800-15 P1dB

Small Signal Gain Vs Temperature

Figure 3 shows small signal gain measurement as a function of frequency at low (-45°C), normal (25°C) and high (70°C) temperatures.

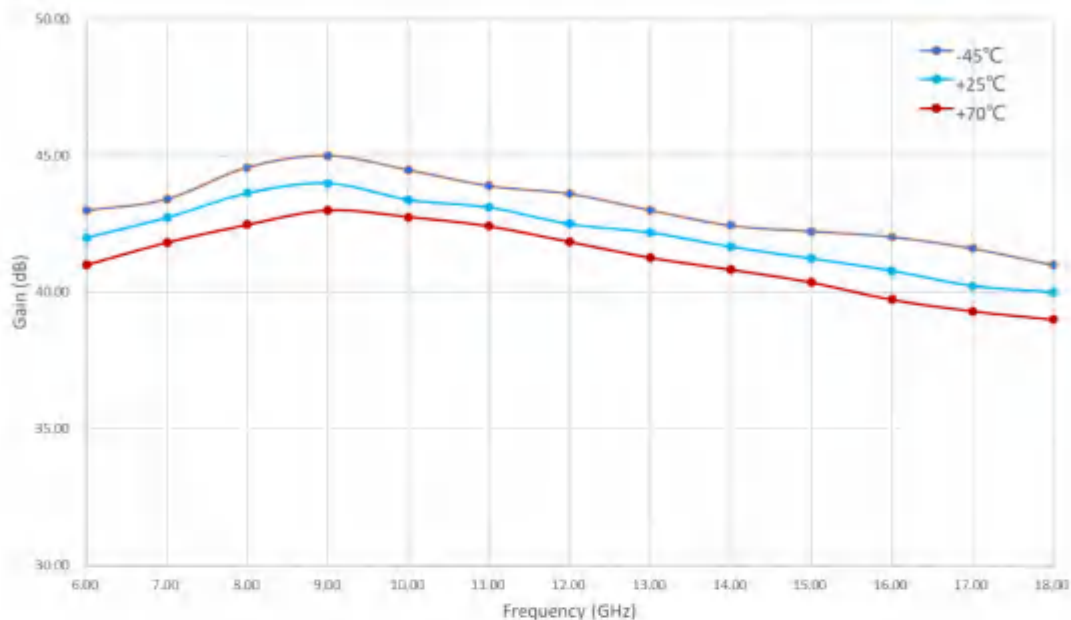


Figure 3: RFLNA-0600-1800-15 Small Signal Gain Vs Temperature

Input and Output VSWR

Figure 4 and Figure 5 show input (S11) and output (S22) VSWR as a function of frequency at environment temperature (25°C).

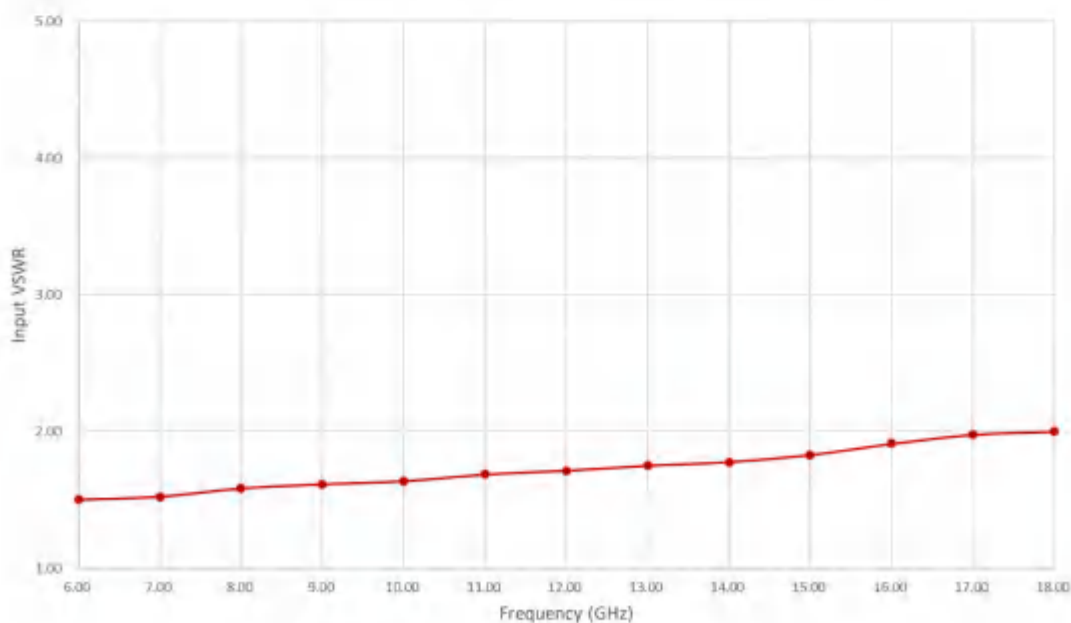


Figure 4: RFLNA-0600-1800-15 Input VSWR

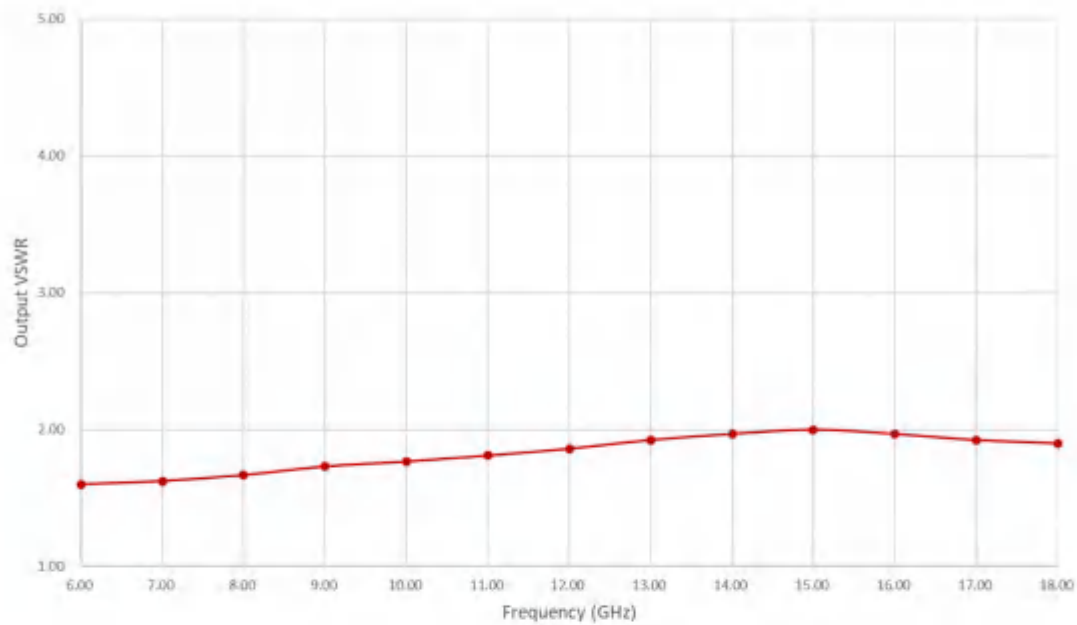


Figure 5: RFLNA-0600-1800-15 Output VSWR

Absolute Maximum Ratings

Condition	Value
DC Voltage	+5.5 VDC
Maximum Input Power (CW)	+10 dBm
Operation temperature (at case)	-40 to 70 °C
Storage temperature	-55 to 125 °C

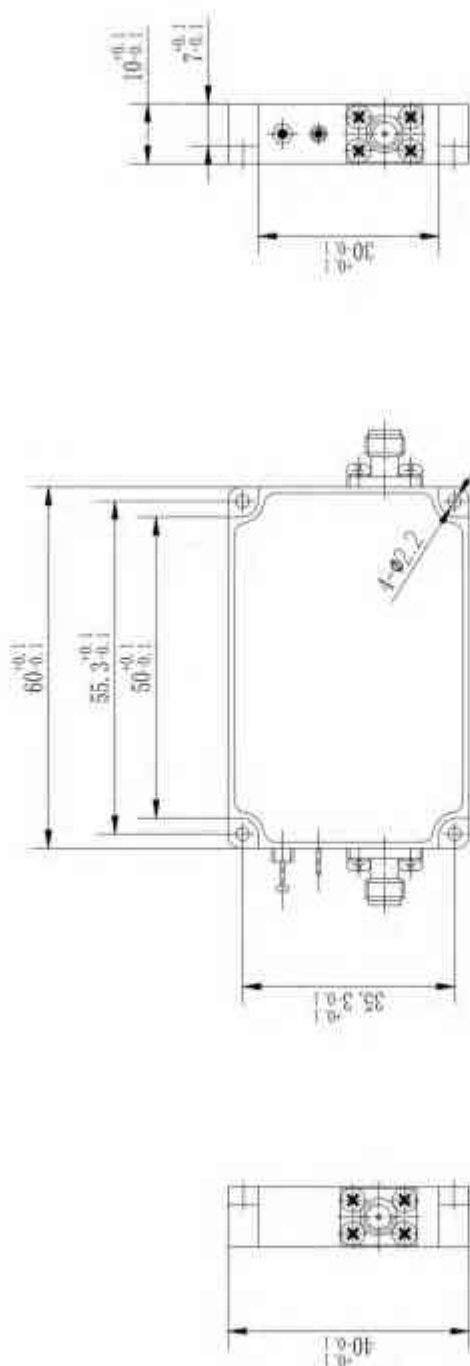
- Stress above these ratings may cause permanent damage to the device.
- It is final user responsibility to maintain the amplifier within the specified ranges.

Measurements Conditions

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

Condition	Value
Temperature (DUT ON)	25 °C ± 1°C
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°C to 85°C

Mechanics and Housing





Identifier	Specification
IN	Signal Input
OUT	Power Output
GND	Ground
Vcc	DC Supply +5V

Model Number Codification

Model Number

