

### Description

PA-30M18G RF power amplifier is from HZ-THZ (also known as SSPA) is featured in our extensive in stock radio frequency microwave, millimeter wave and Terahertz amplifier selection. Our connectorized power amplifier uses SMA connectors at 50 Ohm. HZ-THZ coaxial power amplifier has a minimum frequency of 30 MHz and maximum frequency of 18 GHz. This solid state power amplifier is rated with a P1dB of 31 dBm typical. The gain of the SSPA is 30 dB typical.

PA amplifier PA-30M18G is rated at 15 Volts DC and 600 mA. Our power amplifiers are available in various configurations over different frequency bands to fit your needs, all of which shipped worldwide the same day.

### Features

- Broadband: 30 MHz to 18 GHz
- P1dB: 31 dBm
- Gain: 30 dB min
- 50 Ohm Input and Output Matched
- -40~+85°C Operating Temperature
- Unconditionally Stable
- Single DC Positive Supply

### Applications

- Laboratory Applications
- R&D Labs
- Radar Systems
- Telecom Infrastructure
- Test Instrumentation
- Communication Systems
- Wireless Communication
- Microwave Radio Systems
- Power Amplifier
- High Dynamic Range Amplifier
- General Purpose Amplification
- Military & Space

# Power Amplifier

PA-30M18G

100 MHz to 6 GHz, 31 dBm P1dB, 30 dB Gain, SMA

HZ-THZ

## Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.03		18	GHz
Gain		30	34	dB
Gain Flatness		±2.0		dB
Input VSWR		1.8	2.5	: 1
Output VSWR		1.8	2.5	: 1
Output Power P1dB		31		dBm
Saturated Output Power (Psat)	32	33		dBm
Output 3rd Intercept Point		40		dBm
Operating DC Current		600	800	mA
Operating DC Voltage		+15		Volts
Input Connector		SMA Female		
Output Connector		SMA Female		

Electrical Specification Notes:

Values at +25°C, sea level.

## Absolute Maximum Rating

Parameter	Rating	Units
DC Voltage	+15 to +18	Volts
Operating Temperature	-40 to +85	°C
Storage Temperature	-55 to +125	°C

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## PA-30M18G

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### Mechanical Specifications

#### Size

Length 1.89 in [48.00 mm]  
Width 1.81 in [46.00 mm]  
Height 0.47 in [12.00 mm]

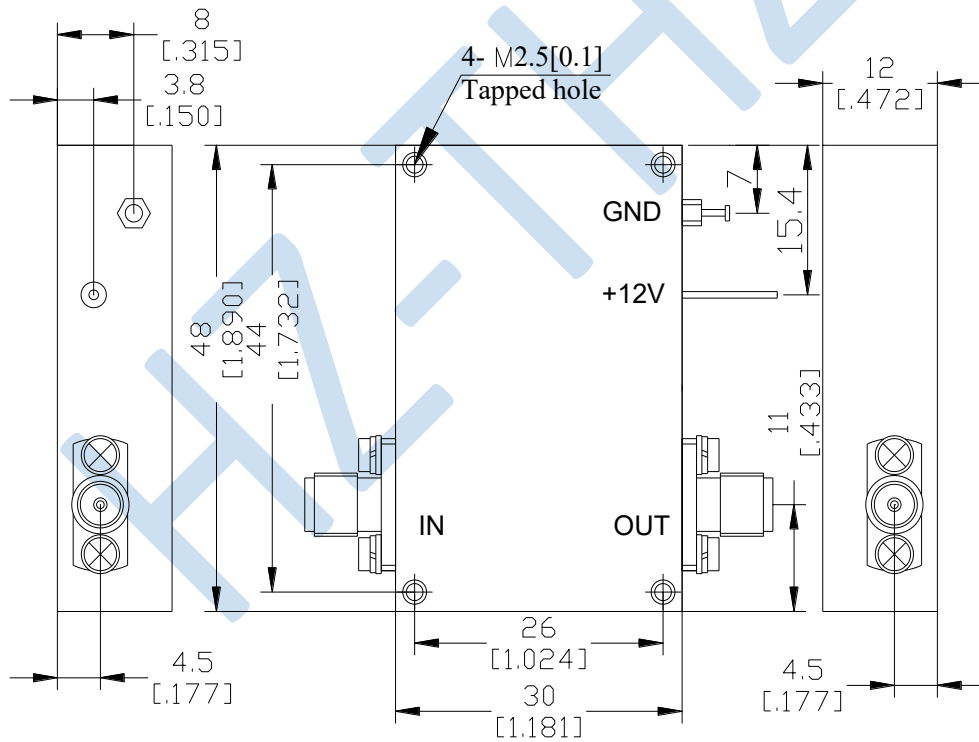
Weight 0.45 lbs [205.00 g]

Package Type Customized

### Outline Drawings

Unit: mm

Tolerance:  $\pm 0.05$  mm



### How To Order

PA-30M18G

Pls send request to [sales@hz-thz.com](mailto:sales@hz-thz.com).