



Power Amplifier

Model: PA-30G-36G-40

30-36GHz 40W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 30-36GHz
- High output power at saturation, 40W Min.
- High gain, 46 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-30G-36G-40 is a power amplifier with a minimum gain of 46dB and a minimum Psat of 40W across the frequency range of 30 to 36GHz. The DC power requirement for the amplifier is +28 VDC/20 A. The input port configuration is a female 2.92mm connector and the output is a WR28 waveguide.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	30		36	GHz
Gain	46	50		dB
Gain Flatness		±3	±5	dB
Output P1dB		44		dBm
Output Psat	46	47		dBm
Input VSWR		1.5	2	:1
DC Voltage		+28	+30	V DC
DC Supply Current		20	32	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-40°C to +50°C	
Non-operating Temperature*	-50°C to +60°C	
Relative humidity	95%	
RF Input/Output Connector	2.92 Female WR28	
DC Bias	D-SUB-15	
Altitude	30,000	feet
Shock / Vibration(MIL-STD-810F)	20g,11ms,saw-tooth	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	220*200*35	mm
Weight	6	Kg

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

Absolute Maximum Ratings:

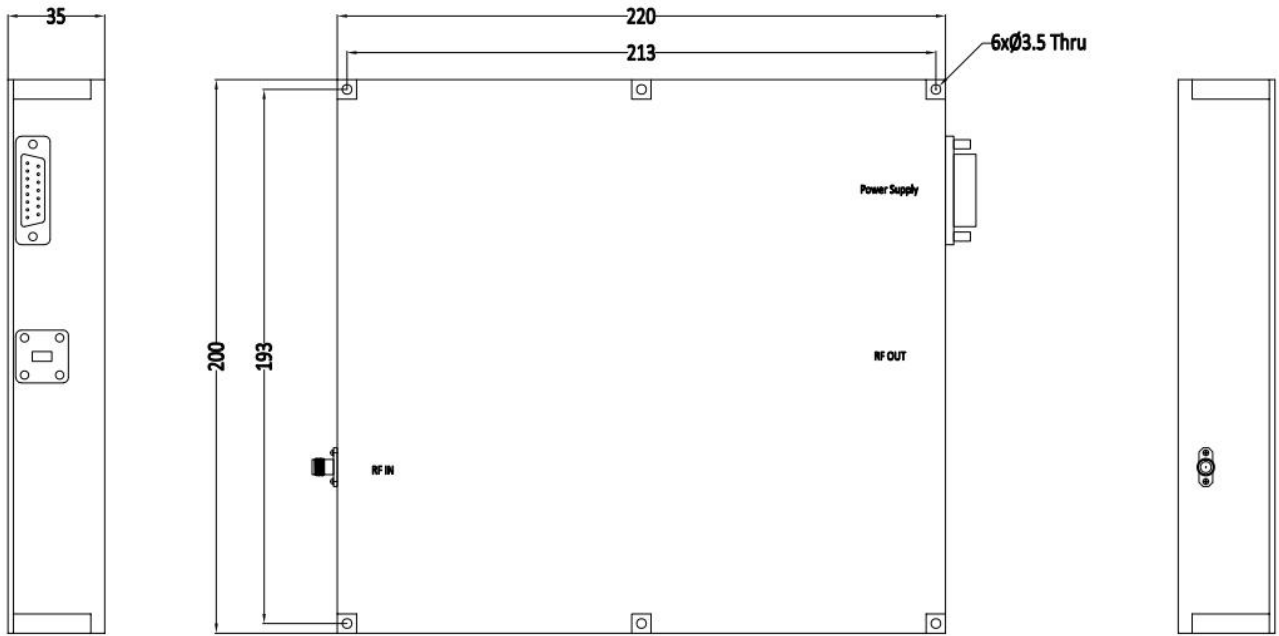
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-30G-36G-40



Ordering Information:

Base Number	Description	Optional
PA-30G-36G-40	Power Amplifier, 30-36GHz, Gain:46dB,Psat:40W,+28V DC	Without Heatsink
PA-30G-36G-40-HS	Power Amplifier, 30-36GHz, Gain:46dB,Psat:40W,+28V DC	With Heatsink