



Power Amplifier

Model: PA-2G7-3G5-200

2.7-3.5GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 2.7-3.5GHz
- High output power at saturation, 200W Min.
- High gain, 53 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-2G7-3G5-200 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 2.7 to 3.5 GHz. The DC power requirement for the amplifier is +28 VDC/25 A. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with N female. And it has built-in protection functions included over TEM, over voltage, and over current protection.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	2.7		3.5	GHz
Power Gain	53			dB
Gain Flatness		±3		dB
Output P1dB		50		dBm
Output Psat	53	54		dBm
Harmonics @Pout=53dBm			-20	dBc
Input VSWR		1.5	2.0	:1
DC Voltage	+26	+28	+30	V DC
DC Supply Current		25	30	A
Impedance		50		Ohms

Mechanical Specifications:

Parameter	Value	Notes
Operating Temperature*	-20°C to +50°C	
Non-operating Temperature*	-30°C to +60°C	
Relative humidity	95	%
RF Input/Output Connector	SMA Female/N Female	
DC Bias	Four core avionics	
Altitude	10,000	feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis	
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions	
Dimensions W x H x D	330*310*120	mm
Weight	20	Kg

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

Absolute Maximum Ratings:

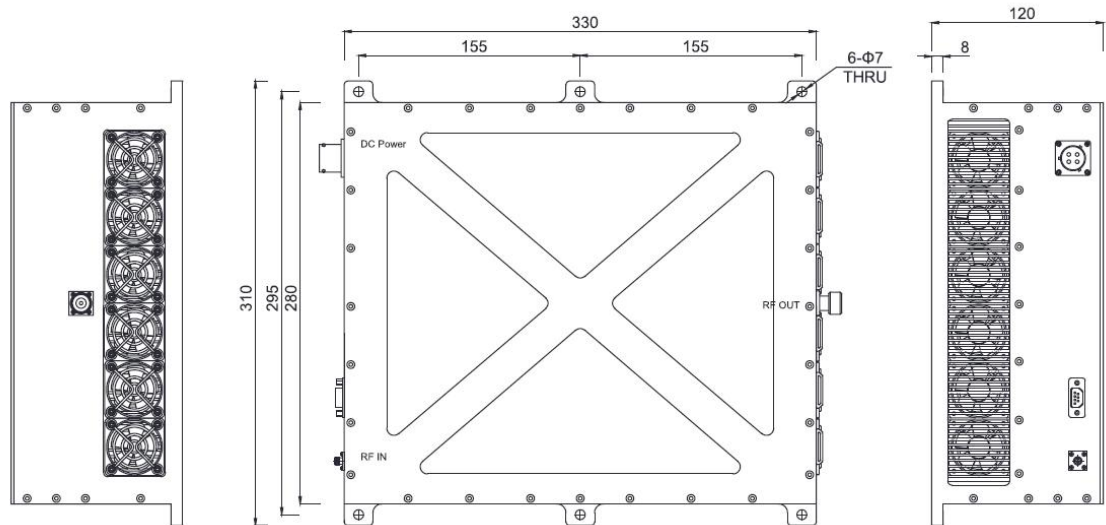
Parameter	Value
Supply Bias Voltage	+30 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-2G7-3G5-200-HS



Key Features:

Parameter	Specification
Over Temp Protection	55°C Max(Case)
Over Voltage Protection	32V Max
Over Current Protection	35A Max
Forward /Reverse Power Sense(analog Voltage)	
Current Sense(analog Voltage)	
Temp Sense (analog Voltage)	

Ordering Information:

Base Number	Description	Optional
PA-2G7-3G5-200	Power Amplifier, 2.7-3.5GHz, Gain:53dB,Psat:200W,+28V DC	With Heatsink