



Power Amplifier

Model: PA-0G5-2G-200

0.5-2GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 0.5-2GHz
- 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-0G5-2G-200 is a power amplifier with a minimum gain of 53 dB and a minimum Psat of 200 W across the frequency range of 0.5 to 2 GHz. The DC power requirement for the amplifier is +28 VDC/22 A. The input port configuration offers coax adapter structure with SMA female and output port configuration offers coax adapter structure with N female.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	0.5		2	GHz
Gain	53	55		dB
Gain Flatness		±2	±3	dB
Output P1dB	49	50		dBm
Output Psat	53	53.5		dBm
Input VSWR		1.5	2	:1
DC Voltage	26	28	30	V DC
Static Current		5		A
Saturation Current		22	25	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 Power Supply Connector	D-SUB-15Pin	
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	260 x 160 x 24	mm
Weight	1000	g

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

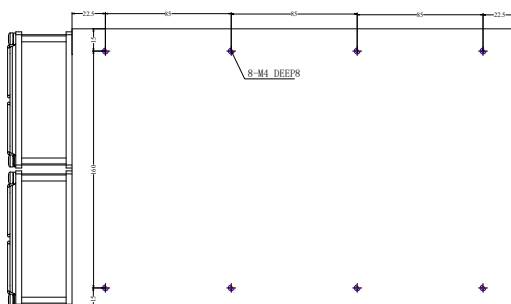
Absolute Maximum Ratings:

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



Unit:mm

PA-0G5-2G-200





Optional items:

Fan power supply	
Red line	Power supply positive,+24.0-28.0VDC DC current: 0.6A
Black line	Ground

DC Supply Connector(DSUB-15 Female):

Pin	Name	Function
1~3	VCC	Power supply positive,+26.0-30.0VDC
4	GND	Ground
5	GND	Ground
6	EN	Amplifier Enable: TTL High (5 V) (Internal High-Level)
7	NC	Not connected
8	Over TEM	When the casing temperature exceeds 70° C, the power amplifier is turned off; this pin is pulled high. If the chassis temperature drops to 60° C, the power amplifier resumes normal operation; this pin is pulled low.
9~10	VCC	Power supply positive,+26.0-30.0VDC
11~13	GND	Ground
14~15	NC	Not connected

Ordering Information:

Base Number	Description	Optional
PA-0G5-2G-200	Power Amplifier,0.5-2GHz, Gain:53dB,Psat:200W,+28V DC	Without Heatsink
PA-0G5-2G-200-HS	Power Amplifier,0.5-2GHz, Gain:53dB,Psat:200W,+28V DC	With Heatsink