



# Power Amplifier

## Model: PA-7G-10G-200

7-10GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

### Features:

- Frequency range: 7-10GHz
- High output power at saturation, 200W Typ.
- High gain, 53 dB Min.
- 50 Ohm Matched Input / Output.

### Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

### Product Overview:

The PA-7G-10G-200 is a power amplifier with a minimum power gain of 53 dB and a nominal  $P_{sat}$  of 200W across the frequency range of 7 to 10 GHz. The AC power requirement for the amplifier is +100 VAC/14 A. The input port configuration offers coax adapter structure with SMA female and output port is WR112.



## Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	7		10	GHz
Working Mode	CW/PULSE compatible			
Power Gain	53			dB
Power Gain Flatness		±3		dB
Output P1dB	46			dBm
Output Psat		53		dBm
Spurious@Pout=53dBm			-60	dBc
Harmonics@Pout=53dBm		-20		dBc
Input VSWR			2	:1
AC Voltage	+86	+100	+120	V AC
AC Supply Current		14		A
Power Consumption@CW		1400		W
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/WR112	
Forward/Reverse Coupling	SMA Female/SMA Female	
AC Supply Connector	Y50DX-1204	
Pulse Input Connector	BNC Female	
Control Connector	J30J-15ZKP	
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	350*262*150	mm
Weight	≤20	Kg

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



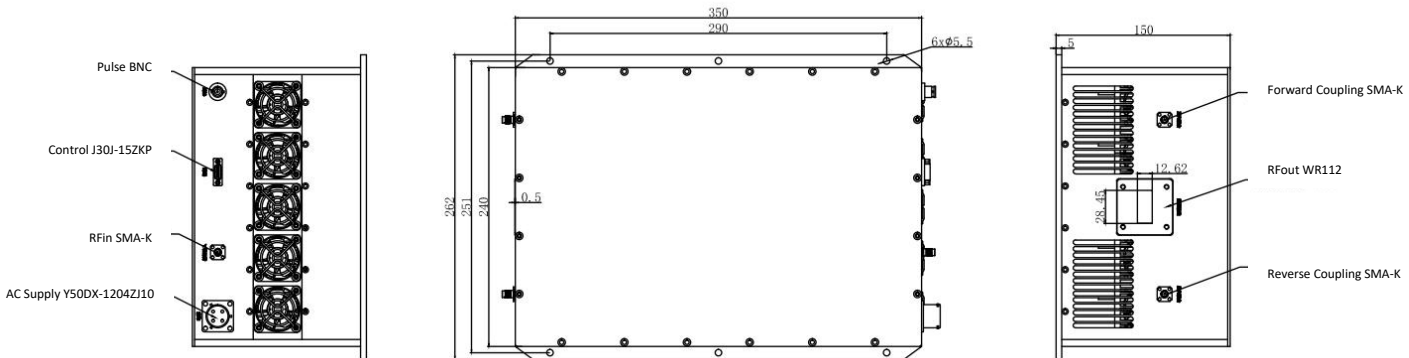
## Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+120 V
RF Input Power	TBD
ESD sensitivity (HBM)	Class 0, passed 150V

## Outline Drawing:

Unit:mm

PA-7G-10G-200



## Ordering Information:

Base Number	Description	Optional
PA-7G-10G-200	Power Amplifier, 7-10GHz, Gain:53dB,Psat:200W,+100V AC	With Heatsink