



Power Amplifier

Model: PA-10G7-12G7-200

10.7-12.7GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 10.7-12.7GHz
- 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-10G7-12G7-200 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 10.7 to 12.7 GHz. The AC power requirement for the amplifier is +220 VAC/1600 W. The input port configuration offers coax adapter structure with N female and output port configuration offers coax adapter structure with WR75. And it has built-in protection functions included over TEM, over voltage, over current, and over VSWR protection.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	10.7		12.7	GHz
Power Gain	53			dB
Output Psat	53			dBm
Gain flatness		±3		dB
Spurious@Pout=53dBm			-50	dBc
Harmonic@Pout=53dBm			-15	dBc
Input VSWR			2	:1
AC Voltage		+220		V AC
Power Consumption			1600	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	N Female/WR75	
DC Supply Connector	Y50DX-1403	
Control Connector	Y50X-1013	RS422
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	320*304*155	mm
Weight	≤20	Kg

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

Absolute Maximum Ratings:

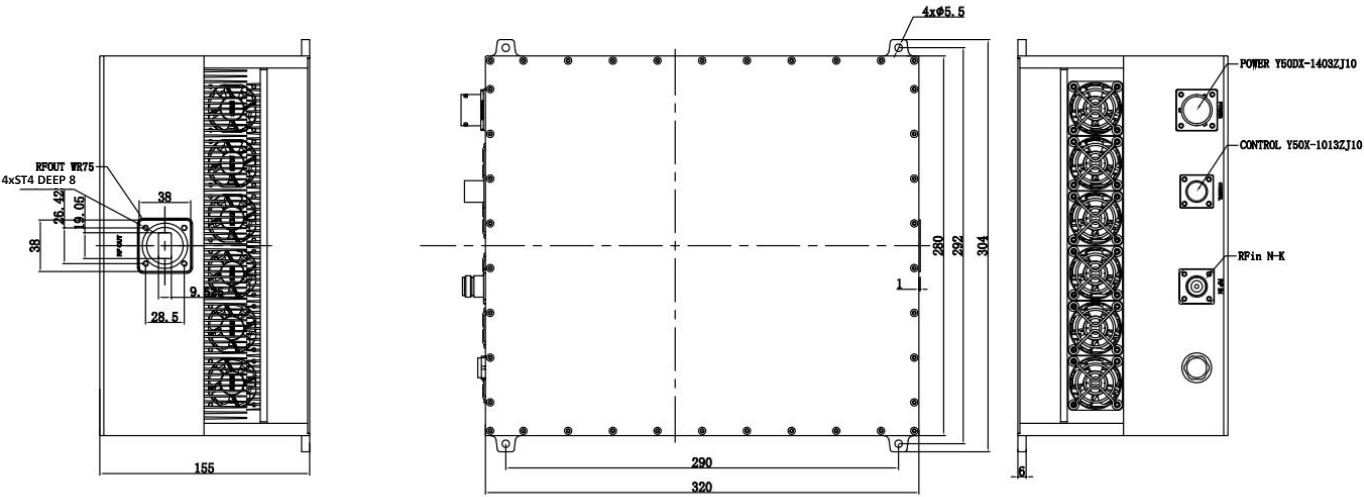
Parameter	Value
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

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Key Features:

Parameter	Advantages
Control functions	1, Power setting on/off 2,RF setting on/off 3,ALC automatic level control
Monitoring functions	1, TEM 2, Operating voltage 3, Operating current 4, Output/reflected power 5, Fault informations
Protection functions	1,Over TEM 2,Over voltage 3,Over current 4,Over VSWR: the safe level of3:1
Remote control	RS422
Cooling system	Built in Cooling system,forced air cooling



Ordering Information:

Base Number	Description	Optional
PA-10G7-12G7-200	Power Amplifier, 10.7-12.7GHz, Gain:53dB,Psat:200W,+220V AC	With Heatsink