



Power Amplifier

Model: PA-11G7-15G-200-IP65

11.7-15GHz 200W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 11.7-15GHz
- 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-11G7-15G-200-IP65 is a power amplifier with a minimum power gain of 53 dB and a minimum Psat of 200W across the frequency range of 11.7 to 15 GHz. The DC power requirement for the amplifier is +28 VDC/1.5 KW. The input port configuration offers coax adapter structure with N female and output port is WR75. And it has built-in protection functions included over TEM, over voltage, and Load VSWR protection.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	11.7		15	GHz
Linear Gain		65		dB
Linear Gain Flatness		±4		dB
Power Gain	53			dB
Output Psat	53			dBm
Output Psat Flatness			±1.5	dB
Gain adjust Range	30			dB
Gain adjust Step		0.5		dB
Gain stability@24h		±0.25		dB
Spurious@Pout=53dBm			-60	dBc
Harmonics@Pout=53dBm			-25	dBc
VSWR			1.5	:1
Load VSWR			3	:1
DC Voltage		+28	+29	V DC
Power Consumption@Pout=53dBm		1.5		KW
Power Consumption@Psat			2	KW
Ingress Protection Grade		IP-65		
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 Power Connecto	Y50DDX-1203	
Update connector	J30J-9ZKP	
M&C connector	Ethernet:RJ-45	DCU/UDP (chooseone)
Altitude	3000@MAX	meters
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	440*370*150	mm



Mechanical Specifications:

Parameter	Value	Notes
Weight	≤30	Kg

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

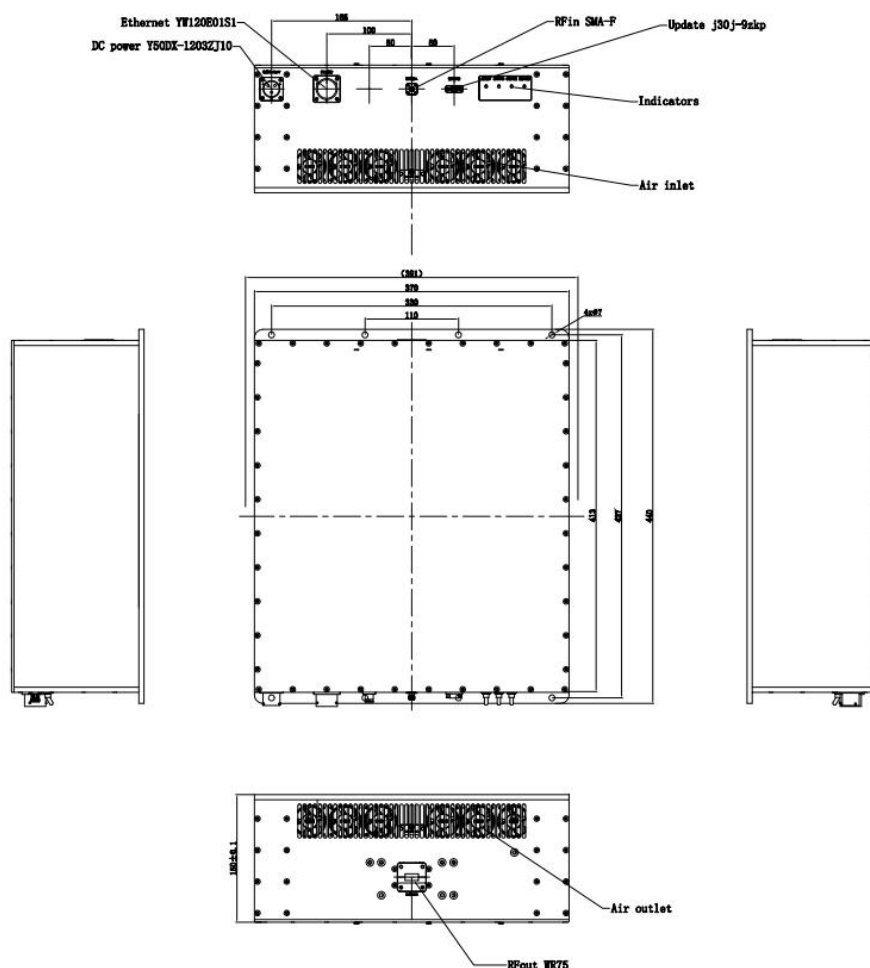
Absolute Maximum Ratings:

Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm

PA-11G7-15G-200-IP65





Key Features:

Parameter	Advantages
Protection functions	1,Over TEM: $\geq+65^{\circ}\text{C}$ shutdown 2,Over voltage: $\geq 29.5\text{V}$ shutdown 3,Load VSWR protection:The unit disables RF when reverse power exceeds the safe level of 3:1 VSWR or reduces power by 6dB
Monitoring function	1,Chip-level: status of power chip(gate voltage, drain current, case-temp); 2,System-level: output power, reverse power, load VSWR, DC voltage, DC current, environment temp, Cool-plate temp.

Ordering Information:

Base Number	Description	Optional
PA-11G7-15G-200-IP65	Power Amplifier, 11.7-15GHz, Gain:53dB,Psat:200W,+28V DC	With Heatsink