



Power Amplifier

Model: PA-6G-18G-316

6-18GHz 316W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 6-18GHz
- High output power at saturation, 316W Min.
- High gain, 55 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-6G-18G-316 is a power amplifier with a minimum power gain of 55 dB and a minimum Psat of 316W across the frequency range of 6 to 18 GHz. The DC power requirement for the amplifier is +28 VDC/4000 W. The input port configuration offers coax adapter structure with SMA female and output port is WRD500.



Electrical Specifications at 25°C:

Parameter	Min	Typ	Max	Units
Frequency range	6		18	GHz
Power Gain	55			dB
Power Gain Flatness		±5		dB
Output Psat	55			dBm
Spurious@Pout=55dBm			-55	dBc
Harmonic@Pout=55dBm			-15	dBc
DC Voltage		+28		V DC
Power Consumption			4000	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/WRD500	
Power Supply Connector	Y50DX-1804	Pin1~2 : +28V Pin3~4: GND
Altitude	10,000	
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	270*276*207.25	mm
Weight	≤25	Kg

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

Absolute Maximum Ratings:

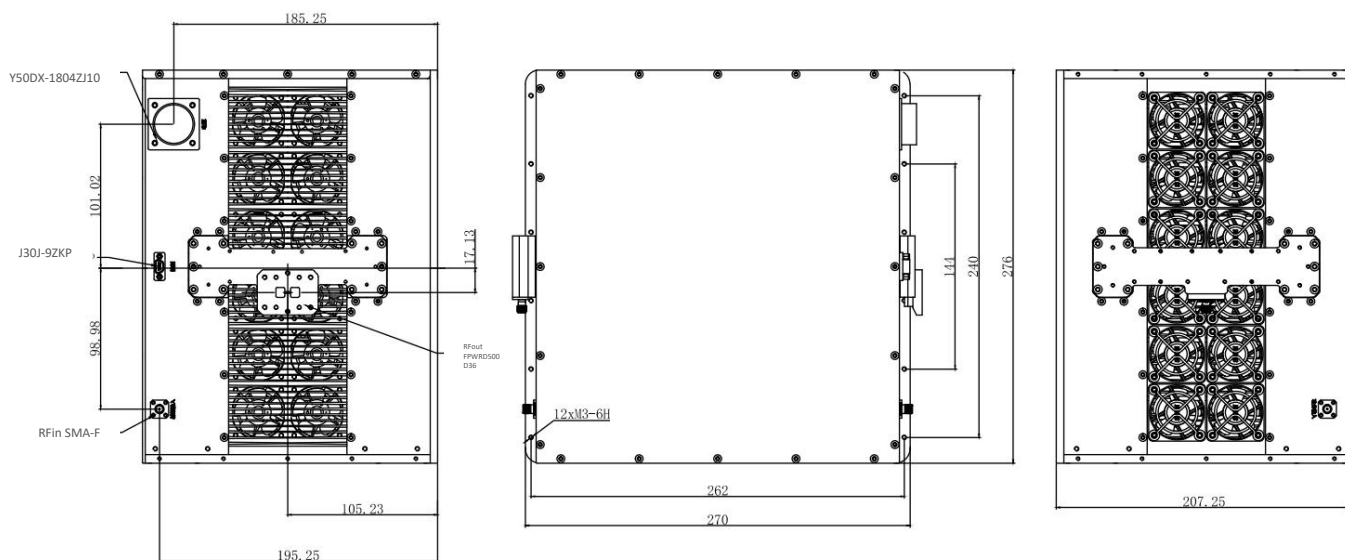
Parameter	Value
Supply Bias Voltage	TBD
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-6G-18G-316



Ordering Information:

Base Number	Description	Optional
PA-6G-18G-316	Power Amplifier, 6-18GHz, Gain:55dB,Psat:316W,+28V DC	With Heatsink