



Power Amplifier

Model: PA-8G-12G-125

8-12GHz 125W CW

Ultrabroad frequency range, high performance and exceptional RF characteristics

Features:

- Frequency range: 8-12GHz
- High output power at saturation, 125W Min.
- High gain, 51 dB Min.
- 50 Ohm Matched Input / Output.

Applications:

- Cellular
- PCN
- GSM
- ISM
- Lab Test

Product Overview:

The PA-8G-12G-125 is a power amplifier with a minimum power gain of 51 dB and a minimum Psat of 125W across the frequency range of 8 to 12 GHz. The DC power requirement for the amplifier is +28 VDC/650 W. 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	8		12	GHz
Power Gain	51			dB
Power Gain Flatness		±3		dB
Output Psat	51			dBm
Spurious@Pout=51dBm			-55	dBc
2nd Harmonics@Pout=51dBm			-20	dBc
Input VSWR			2	:1
DC Voltage		+28	+29	V DC
Power Consumption			650	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/N Female	
Power Supply Connector	Y50DX-1404	Pin1~2 : +28V Pin3~4: GND
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	280*180*120	mm
Weight	≤7.5	Kg

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

Absolute Maximum Ratings:

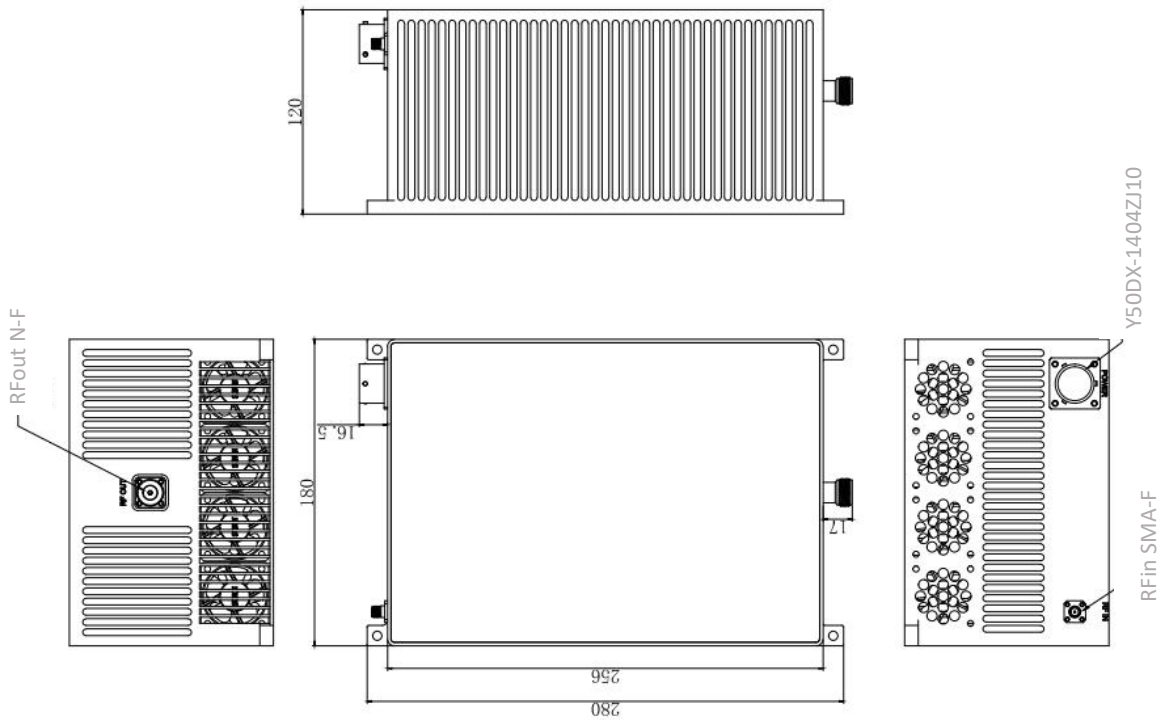
Parameter	Value
Supply Bias Voltage	+29 V
RF Input Power	+5 dBm
ESD sensitivity (HBm)	Class 0, passed 150V



Outline Drawing:

Unit:mm

PA-8G-12G-125



Ordering Information:

Base Number	Description	Optional
PA-8G-12G-125	Power Amplifier, 8-12GHz, Gain:51dB,Psat:125W,+28V DC	With Heatsink