

HIGH POWER AMPLIFIER 10 Watt 8-12 GHz

DataSheet



Model : _____ HPA10W8-12G

DESCRIPTION

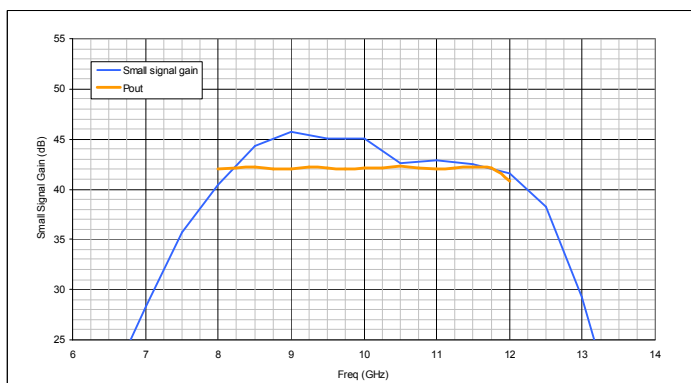
The HPA10W8-12G is a X band high power amplifier mounted on a 19inch rack.

The amplifier is exclusively designed with solid-plate components allowing, at the same time, high power, high linearity, high efficiency and low noise.

Moreover, this amplifier is unconditionally stable at the input and the output.

Minimum output power is 10 W at 1 dB compression.

Made in FRANCE.



MAIN FEATURES

- Output power @P1dB> 10W
- Average Psat output power: 16W
- Noise figure : <7dB
- Rack 19"
- Only mains power supply required

ABSOLUTE MAXIMUM RATINGS¹

Parameter	Rating	Unit
Operating temperature range	0 ; +40	°C
Storage temperature	-20 ; +85	°C
Max CW RF input power	Do not exceed +42.5dBm output power	dBm

Note ¹ : Permanent damage may occur if any of these limits are exceeded

ELECTRICAL SPECIFICATIONS

Parameter		Value	Unit
Frequency Range		8 - 12	GHz
RF output power @2dBc :	8 to 11.75 GHz	> 41.8	dBm
	11.75 to 12 GHz	> 40.5	dBm
Small Signal Gain		44.2 +/-3	dB
Input & Output Return loss		< -15	dB
Noise Figure		< 7	dB
AC power		220/230 50/60	V Hz
RF Connectors	IN	N female	
	OUT	N female	

LIST OF OPTIONNAL SPÉCIFICATIONS

Parameter	Value	Unit
Connectors In&Out	N, SMA, 2.9. Front panel/rear panel	
Small Signal Gain	55 +/-3	dB
Variable gain	15 or 30	dBc
AC power	110/115 50/60	V Hz

FRONT PANEL



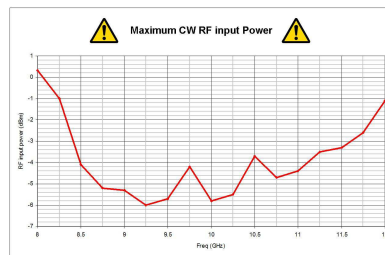
REAR PANEL



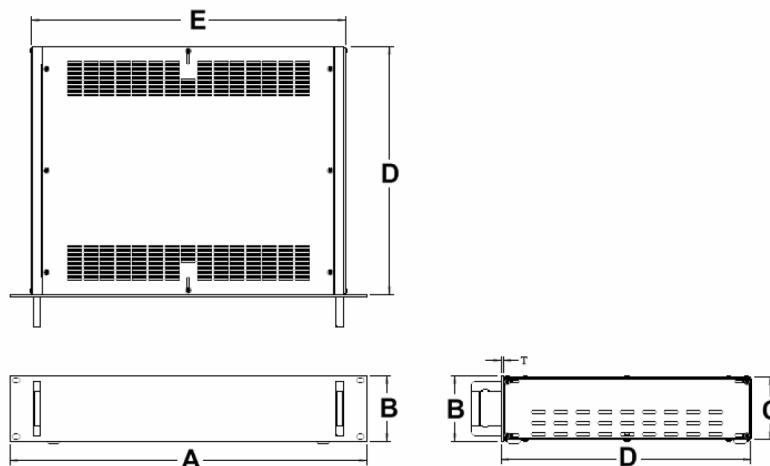
Symbol	Location	Meaning
RF In	Front	RF input (N female)
RF Out	Rear	RF output (N female)
On / Off	Front	Power amplifier biasing
I / O	Rear	Master switch ON/OFF

TYPICAL STICKERS ON FRONT PANEL

In order to not exceed +42.5dBm at the output, this graph shows the absolute maximum rating of the RF input power (This curve was obtained from power gain measurements).



MECHANICAL SPECIFICATIONS



Parameter	Value	Unit
Front Panel Dimensions (A x B)	483 x 177	mm
Cabinet Dimensions (E x D x C)	425 x 425 x 172	mm
Weight	16.0	Kg