

# AMP1000B

## 1000W – FM Amplifier

Designed for FM radio transmitters.

This amplifier incorporates micro strip technology and MOSFET transistor to enhance ruggedness and reliability.

### SWR & TEMPRATURE PROTECTION

- 87.5 ÷ 108 MHz
- 48 Volts
- Input/Output 50 Ω
- Pout : 950W min 1200W max
- Gain : 19 dB typ 21.5 db max
- Class B Id=0mA
- SWR sensor on board
- Devices: MRF151G or equivalent
- Led inductors – VDD DC , FWD power and TEMP & SWR alarm indicators



Dimension (L x W x H): 125 x 50 x 15mm [5" x 2" x 0.6"]  
This picture is a mere example, it does not bind the provided product

### ABSOLUTE MAXIMUM RATINGS (Device Flange T = 70 °C)

Symbol	Parameter	Value	Unit
Vdc	Drain Voltage Supply	50	V
Idc	Supply Current	40	A
Vswr	Load Mismatch (all phase angles, Tc=40°C, Id=4A)	10.0	Vswr
Pin	Input RF Power	25	W
Tstg	Storage Temperature Range	-40 to +80	°C
Tc	Operating Temperature	+70	°C

### ELECTRICAL SPECIFICATIONS (Base Plate T = 45 °C, 50Ω loaded, Vd = 28 V)

Characteristics	Min	Typ	Max	Unit
Operating Frequency Range	86	98	109	MHz
Fundamental Output Power		950	1200	W
Input Power		15	25	W
Power Gain (1200W output)		19	21.5	db
Drain Efficiency (Load 50Ω)		60	70	%
Input VSWR	1.5	2.0	3.0	Vswr
F2 Second Harmonic		-45	-45	dbc
F3 Third Harmonic		-45	-45	dbc

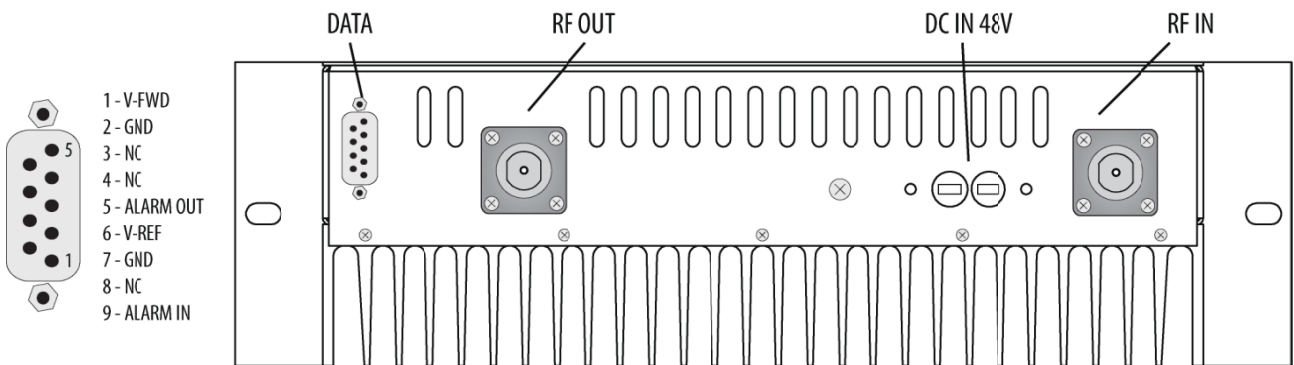
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## ELECTRICAL CONNECTIONS

Warning – Operating without antenna or dummy load (50ohm) can permanently damage to the RF power transistor.

Warning – Check the output connection before applying DC voltage to the module.



WARNING - NC connections are for lab tests only not for customer use, using those pins can damage the amplifier!

## MODULE MOUNTING/HARDWARE

Warning - If the module will be over heated above 50°C – Air fan should be applied to the heat sink.

Warning – Overheating can cause permanently damage to the power transistor.

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