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Solid State Broadband High Power RF Amplifier

The 5088-002 is a 500 Watt broadband amplifier that covers the 10 KHz – 100 MHz frequency range. This relatively small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5088-002 comes with an extended multiyear warranty.

ORDERING MODELS

- ◊ RE - Rear panel RF connectors with IEEE488, Ethernet and RS232
- ◊ FE - Front panel RF connectors with IEEE488, Ethernet and RS232

CIRCUIT CONTROL

- ◊ Standby (amplifier disable)
- ◊ Gain/power setting with 25dB range
- ◊ VSWR protection Reset
- ◊ ALC On/ Off

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.01 – 100 MHz
2	Saturated Output Power	500 Watts minimum
3	Small Signal Gain	+57 dB min
4	Gain Flatness	± 3.0 dB
5	IP ₃	+60 dBm
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc @ 250 Watts
8	Spurious Signals	-60 dBc Minimum
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	3000 Watts max
11	AC Input	186 – 264 VAC, single phase
12	Nominal RF Input	0 dBm
13	RF Input Overdrive	+3 dBm max
14	RF Input Signal Format	CW/AM/FM/PM
15	Class of Operation	AB
Mechanical		
16	Dimensions* (W x H x D)	19" x 14" x 26"
17	Weight*	150 lb. max
18	RF Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

CIRCUIT INDICATIONS

Specifications subject to change without notice

- ◊ Forward Power
- ◊ Reflected power
- ◊ VSWR Fault
- ◊ Temp Fault
- ◊ Gain Setting (VVA) percentage

CIRCUIT PROTECTIONS

- ◊ Thermal Overload
- ◊ Over Current
- ◊ Over Voltage
- ◊ VSWR protection
- ◊ RF Output power level



FE Model Shown