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## MODEL 5088-002

10 kHz - 100 MHz  
500 WATTS  
LINEAR POWER RF AMPLIFIER

### 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 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5088-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
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 <sub>3</sub>	+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
<b>Mechanical</b>		
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
<b>Environmental</b>		
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

### 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

### CIRCUIT INDICATIONS

- ◇ 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

Specifications subject to change without notice



FE Model Shown