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MODEL 5088-005
1.0 – 80.0 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High Power
 RF Amplifier**

The 5088-005 is a 500 Watt broadband amplifier that covers the 1.0-80.0 MHz frequency range. This 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 5088-005 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1.0-80.0 MHz
2	Power Output at P1dB	500 Watts Minimum
3	Small Signal Gain	+59 dB min
4	ALC Gain Flatness	± 1.5 dB
5	IP ₃	+60 dBm
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical @ 500 Watts
8	Spurious Signals	< -50 dBc typical @ 500 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	3000 Watts max
11	AC Input	200 – 240 VAC, single phase 47-63 Hz
12	Nominal RF Input	0 dBm
13	RF Input Overdrive	+13 dBm max
14	RF Input Signal Format	CW/AM/FM/PM
15	Class of Operation	AB
<u>Mechanical</u>		
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
<u>Environmental</u>		
21	Operating Temperature Storage Temperature	0° C to +45° C -20° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 2000 m Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice



FE MODEL SHOWN

ORDERING MODELS

- ◇ RE - Rear RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◇ FE - Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232
- ◇ R - Rear RF Connector model
- ◇ F - Front RF Connector model



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FRONT PANEL CONTROLLER FEATURES

- ◇ Forward Power Monitoring
- ◇ Reflected Power Monitoring
- ◇ Gain Control (Continuously Variable VVA 20dB)
- ◇ Fault Status
- ◇ Full Protection Of any VSWR Condition, Open or Short, into any Phase Angle
- ◇ Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
- ◇ Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, phase or input RF level
- ◇ Standby/Enable Control
- ◇ Front Panel Display for easy viewing of System Status Locally
- ◇ Keypad buttons for full local control

CIRCUIT CONTROL (WITH FRONT PANEL CONTROLLER)

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 20dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

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

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Open or Short VSWR Conditions (With Front Panel Controller)

RFPA SYSTEM OPTIONS

- ◇ Switched Filter Bank
- ◇ Input Power Requirements
- ◇ Ruggedized Version
- ◇ Cabinet Requirements
- ◇ Outdoor Version
- ◇ Sample Ports
- ◇ Racking Options
- ◇ Many More!
- ◇ **Consult Factory with Specific Requirements**

