

Advanced Test Equipment Corp. www.atecorp.com 800-404-ATEC (2832)

Parameter



5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)577-9887

WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5089

10 kHz - 200 MHz 1000 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5089 is a 1,000 Watt broadband amplifier that covers the 0.01-200 MHz frequency range. This amplifier utilizes Class 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 5089 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

<u>Parameter</u>	Specification @ 25° C	
Frequency Range	0.01 – 200 MHz	
Saturated Output Power	1000 Watts typical	
Power Output @ 1dB Comp.	500 Watts min	
Small Signal Gain	+61 dB min	
Gain Flatness	<u>+</u> 4.0 dB min	
IP ₃	+63 dBm min	
Input VSWR	2:1 max	
Harmonics	-20 dBc typical @ 500 Watts	
Spurious Signals	-60 dBc typical @ 500 Watts	
Input/Output Impedance	50 Ohms nominal	
AC Input Power	6,400 Watts max	
AC Input	208 ± 10% VAC, 3\infty	
Nominal RF Input	0 dBm	
RF Input Overdrive	+3 dBm max	
RF Input Signal Format	CW/AM/FM/PM	
Class of Operation	A/AB	
Dimensions* (W x H x D) Overall Dim. w/ Rack	19" x 22.75" x 30.75" (1) 5RU Chassis (2) 8RU Chassis	
Weight	400 lbs. max	
RF Connectors	Type-N	
Grounding	Chassis	
Cooling	Internal Forced Air	
	0° C to +50° C	
Operating Temperature	0° C 10 +50° C	
Operating Temperature Operating Humidity	95% Non-condensing	
	Saturated Output Power Power Output @ 1dB Comp. Small Signal Gain Gain Flatness IP3 Input VSWR Harmonics Spurious Signals Input/Output Impedance AC Input Power AC Input Nominal RF Input RF Input Overdrive RF Input Signal Format Class of Operation Dimensions* (W x H x D) Overall Dim. w/ Rack Weight RF Connectors Grounding Cooling	

Specifications subject to change without notice



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

08/22 Approved By: Date:	
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FRONT PANEL CONTROLLER FEATURES (Optional)

- Forward Power Monitoring (dBm or Watts)
- Reflected Power Monitoring (dBm or Watts)
- Gain Control (20 dB dynamic range of adjustment)
- 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, or input RF level
- ♦ Standby/Enable Control
- Front Panel Display for easy viewing of System Status Locally
- Keypad buttons for full local control

CIRCUIT PROTECTIONS

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

CIRCUIT CONTROL (WITH FRONT PANEL CONTROLLER)

- Standby (amplifier disable)
- Gain/power setting with 20dB range
- ♦ VSWR protection Reset

CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

- Reflected power
- ♦ VSWR Fault
- > Temp Fault
- Gain Setting (VVA) percentage

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





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