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.

	Parameter	Specification @ 25º C
Electrical		
1	Frequency Range	0.01 – 200 MHz
2	Saturated Output Power	0.01 - 160 MHz 1000 Watts Typ. 160 - 200 MHz 650 Watts Typ.
3	Power Output @ 1dB Comp.	0.01 - 160 MHz 500 Watts Typ. 160 - 200 MHz 300 Watts Typ.
4	Small Signal Gain	+61 dB min
5	Gain Flatness	± 4.0 dB min
6	IP_3	+63 dBm min
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 500 Watts
9	Spurious Signals	-60 dBc typical @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	4,800 Watts max
12	AC Input	208 ± 10% VAC, 3ø
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	**+3 dBm max**
15	RF Input Signal Format	CW/AM/FM/PM
16	Class of Operation	A/AB
Mechanical		
17	Dimensions (H x W x D) Overall Dim. w/ Rack	31" x 24" x 31" (1) 5RU Chassis (1) 8RU Chassis
18	Weight	325 lbs.
19	RF Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0º C to +50º C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

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

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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
◊ - ALC On/ Off

CIRCUIT INDICATIONS *(WITH FRONT PANEL CONTROLLER)*

◊ - Forward Power
◊ - 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***

Proudly made in the U.S.A.

ANAB ACCREDITED ISO/IEC 17021 MANAGEMENT SYSTEMS CERTIFICATION BODY — Certified to ISO 9001:2015 — TÜVRheinland® Precisely Right.

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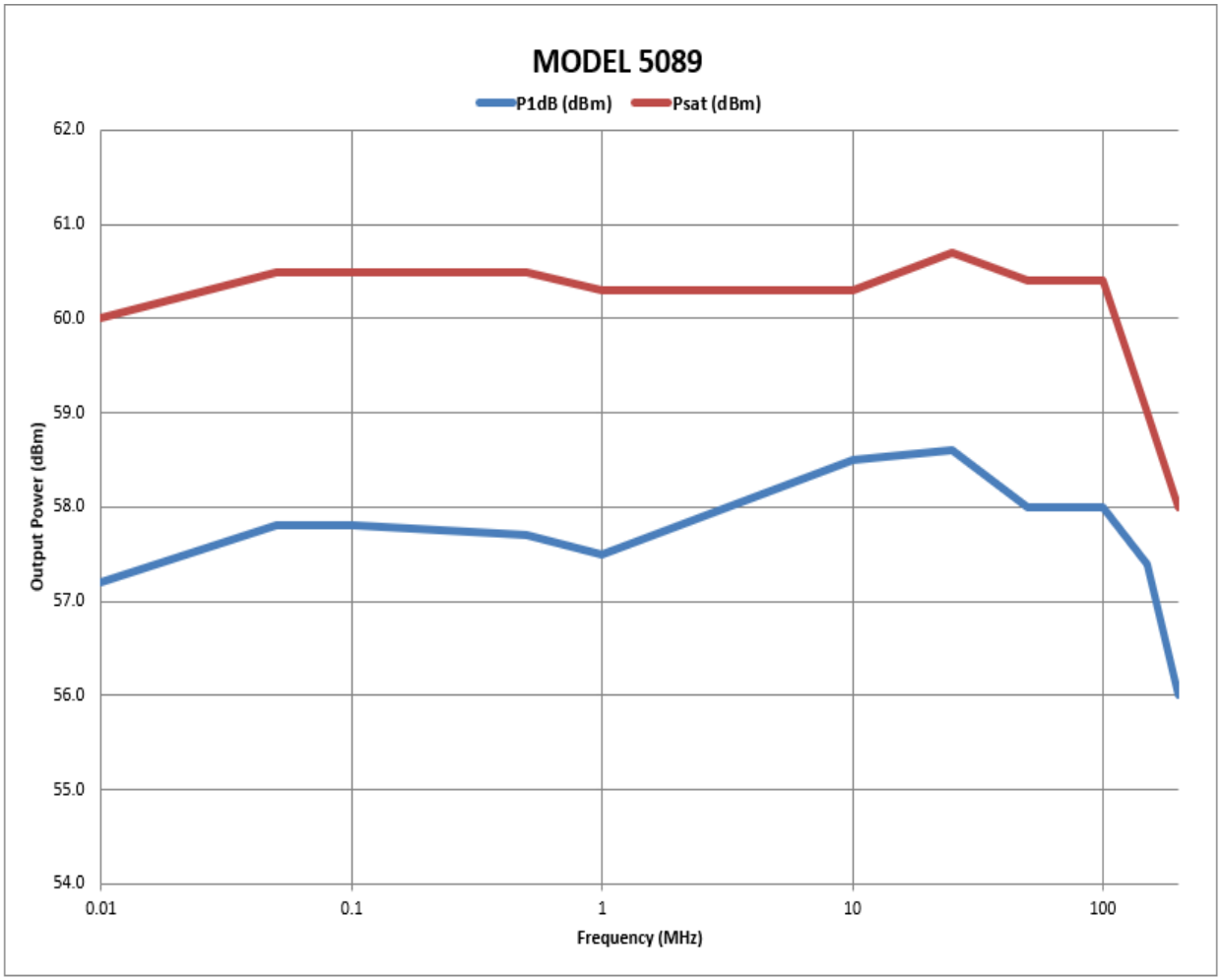

Specifications subject to change without notice

ORDERING MODELS

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FE Front RF Connector model with Front Panel Controller Ethernet, IEEE-488 and RS232

MADE IN USA

ANAB ACCREDITED ISO/IEC 17021-1 MANAGEMENT SYSTEMS CERTIFICATION BODY
Certified to ISO 9001:2015
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