5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 7009

0.01- 3000 MHz
30 to 250 WATTS
HIGH POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 7009 is a three channel amplifier that covers the 0.01 – 3000 MHz frequency range (*10KHz-3000MHz*). Each channel can transmit independently and includes its AC, RF and IEEE-488 GPIB interface .

The 7009 is based on Ophir RF standard legacy proven systems 5087, 5125 and 5172.

. 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 7009 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	Ch 1 0.01-200 MHz Ch 2 20-1000 MHz Ch 3 1000-3000 MHz
2	P_{SAT} Output Power	Ch 1 250 W Minimum Ch 2 70 W Minimum Ch 3 30 W Minimum
	P_{1dB} Output Power	Channel 1 175 W Minimum Channel 2 40 W Minimum Channel 3 24 W Minimum
3	RF Input	0dBm Nominal For Rated Power
4	Gain Flatness	+/- 2.5 dB max with no ALC +/- 1.0 dB max with Internal Leveling
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 1dB Compression
8	Spurious Signals	< -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	Ch 1 100-240VAC, single phase Ch 2 100-240VAC, single phase Ch 3 100-240VAC, single phase
11	AC Input Power	Channel 1 2000 W max Channel 2 750 W max Channel 3 350 W max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	Class A/AB
Mechanical		
15	Dimensions	31" x 24" x 30" (H x W x D) max
16	Weight	250 lb. max
17	Connectors	Type-N
18	User Interface	Ethernet, RS-232, IEEE-488 GPIB
21	Grounding	Chassis
22	Cooling	Internal Forced Air
Environmental		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

SIMILAR MODEL PICTURED

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 (*Optional*)

◊ Forward Power Monitoring
◊ Reflected Power Monitoring
◊ 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 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***

Certified to ISO 9001:2008

Made in the U.S.A.

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