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**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<sup>RF</sup> 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<sup>RF</sup> amplifiers, the 7009 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

*Specifications subject to change without notice*



**SIMILAR MODEL PICTURED**

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	Ch 1 0.01-200 MHz Ch 2 20-1000 MHz Ch 3 1000-3000 MHz
2	PSAT Output Power	Ch 1 250 W Minimum Ch 2 70 W Minimum Ch 3 30 W Minimum
	P1dB 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
<b><u>Mechanical</u></b>		
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
<b><u>Environmental</u></b>		
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

**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**



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