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**MODEL 5296**  
**700 - 6000 MHz**  
**300 WATTS**  
**RF POWER AMPLIFIER**

**Solid State  
 Broadband High Power  
 RF Amplifier**

The 5296 is a broadband amplifier that covers the 700 - 6000 MHz frequency range with a single RF input and single RF output port.

This amplifier provides 300 Watts of power as detailed in the specification for any selected frequency 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<sub>RF</sub> amplifiers, the 5296 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	700-6000 MHz
2	Power at PsAT	300 Watts Typical
3	Power at P1dB	200 Watts Minimum
4	RF Input Power	0 dBm nominal for full rated power
5	Input VSWR	2:1 max
6	Harmonics	-20 dBc typical at P1dB
7	Spurious Signals	< -60 dBc typical at P1dB
8	Temperature Protection	Baseplate above 80° C
9	AC Power Consumption	7,000 Watts Maximum
10	AC Power Input	180-240 VAC, 50/60 Hz, 1Ø
11	Maximum RF Input	0 dBm nominal <b>+3 dBm Maximum</b>
<b><u>Mechanical</u></b>		
12	Dimensions (11RU)	19" x 19.25" x 26"
13	Weight	350 lbs.
14	Connectors	Type-N
15	Grounding	Chassis
16	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
17	Operating Temperature	0° C to +50° C
18	Operating Humidity	95% Non-condensing
19	Operating Altitude	Up to 10,000' Above Sea Level
20	Shock and Vibration	Normal Truck transport

Specifications subject to change without notice



**RE (Rear Connector)  
 Version 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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## MODEL 5296

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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 an even output level 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
- ◇ **Rack Mount Slides-Included**
- ◇ Many More!
- ◇ **Consult Factory with Specific Requirements**

