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MODEL 5265-001

**0.7 - 3.8 GHz
 250 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5265-001 is a 250 Watt broadband amplifier that covers the 0.7 – 3.8 GHz frequency range. This small and lightweight amplifier utilizes Class A 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 5265-001 comes with an extended multiyear warranty.

		Parameter	Specification @ 25° C
Electrical			
1	Frequency Range	0.7 – 3.8 GHz	
2	Saturated Output Power	250 Watts typical	
3	Power out at 1dB compression	150 Watts minimum	
4	Small Signal Gain	+55 dB min	
5	Power Flatness	+/- 2.0 dB max	
6	IP ₃	+60 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-20 dBc typical	
9	Spurious Signals	< -60 dBc typical	
10	Input/Output Impedance	50 Ohms nominal	
11	AC Input Power	5000 Watts max	
12	AC Input	180 – 264 VAC, single phase	
13	RF Input	+10 dBm max	
14	RF Input Signal Format	CW/AM/FM/PM/Pulse	
15	Class of Operation	A/AB	
Mechanical			
16	Dimensions	19" x 14" x 26"	
17	Weight	150 lb. max	
18	Connectors	Type-N	
19	Grounding	Chassis	
20	Cooling	Internal Forced Air	
Environmental			
21	Operating Temperature	0° C to +50° C	
22	Operating Humidity	95% Non-condensing	
23	Operating Altitude	Up to 10,000' Above Sea Level	
24	Shock and Vibration	Normal Truck Transport	

Specifications subject to change without notice



FE MODEL 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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FRONT PANEL CONTROLLER FEATURES (*Optional*)

- ◊ Forward Power Monitoring
- ◊ Reflected Power Monitoring
- ◊ Gain Control (Continuously Variable VVA 20dB)
- ◊ 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, phase 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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