

5200 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413

WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

## **MODEL 5136**

800-2000 MHz 500 WATTS LINEAR POWER RF AMPLIFIER

# Solid State Broadband High Power RF Amplifier

The 5136 is a 500 Watt broadband amplifier that covers the 800-2000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5136 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	Specification @ 25° C		
Electrical				
1	Frequency Range	800-2000 MHz		
2	Saturated Output Power	500 Watts Nominal		
3	Power at P1dB	300 Watts Minimum		
4	Small Signal Gain	+58 dB Minimum		
5	Gain Flatness	<u>+</u> 3.0 dB Maximum		
6	IP <sub>3</sub>	+62 dBm typical		
7	Input VSWR	2:1 max		
8	Harmonics	-20dBc Nominal @ 300Watts		
9	Spurious Signals	< -60dBc Nominal @ 300Watts		
10	Input/Output Impedance	50 Ohms nominal		
11	AC Input Power	3,000 Watts Maximum		
12	AC Input	180 – 240 VAC, single phase		
13	RF Input	0 dBm Nominal +10 dBm max		
14	RF Input Signal Format	CW/AM/FM/PM/Pulse		
15	Class of Operation	Class A		
<u>Mechanical</u>				
16	Dimensions (5RU)	19" x 8.75" x 26"		
17	Weight	125 lbs. 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

02/20	Approved By:	Date:	
02/20	11		



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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 PROTECTIONS**

- Thermal Overload
- ♦ Over Current
- ◊ Over Voltage
- Open or Short VSWR Conditions (With optional front panel controller)

# **CIRCUIT CONTROL (With Optional Front Panel Controller)**

- Standby (amplifier disable)
- Gain/power setting with 20dB range
- VSWR protection Reset
- ♦ ALC On/ Off

# **CIRCUIT INDICATIONS**

- ♦ Forward Power
- ♦ Reflected power
- VSWR Fault
- Gain Setting (VVA) percentage (Optional)

### 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



