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

## **MODEL 5406**

500-2000 MHz 350 WATTS LINEAR POWER RF AMPLIFIER

# Solid State Broadband High Power RF Amplifier

The 5406 is a 350 Watt broadband amplifier that covers the 500-2000 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 5406 comes with an extended five year warranty backed by Ophir RF's commitment to total customer satisfaction.

		<u>Parameter</u>	Specification @ 25° C		
	<u>Electrical</u>				
	1	Frequency Range	500-2000 MHz		
	2	Saturated Output Power	350 Watts Minimum		
	3	Power at P1dB	200 Watts Minimum		
	4	Small Signal Gain	+56 dB Minimum		
	5	Gain Flatness	<u>+</u> 4.0 dB Maximum		
	6	IP <sub>3</sub>	+56 dBm typical		
7		Input VSWR	2:1 max		
	8	Harmonics	-20 dBc Min @ 200 Watts		
	9	Spurious Signals	< -60 dBc typical @ 200 Watts		
	10	Input/Output Impedance	50 Ohms nominal		
	11	AC Input Power	3500 Watts Maximum		
	12	AC Input	208 VAC ( <u>+</u> 10%), 3 Ф		
	13	RF Input	0 dBm max		
	14	RF Input Signal Format	CW/AM/FM/PM/Pulse		
	15	Class of Operation	Class A		
	<u>Mechanical</u>				
	16	Dimensions (8RU)	19" x 14.0" x 26"		
	17	Weight	200 lb. max		
	18	Connectors	Type-N		
	19	Grounding	Chassis		
	20	Cooling	Internal Forced Air		
<u>Environmental</u>					
	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**

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- 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

Approved By: \_\_\_\_\_ Date: \_\_\_\_



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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 Front Panel Controller)

## **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
- Gain Setting (VVA) percentage

#### **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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