5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 4044

2 - 30 MHz
2000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-Specific High Power RF Amplifier

The 4044 is a 2000 Watt band-specific amplifier that covers the 2 – 30 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 4044 comes with an extended multiyear warranty.

FE Model Shown

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2 – 30 MHz
2	Saturated Output Power	2000 Watts typical
3	Power Output @ 1dB Comp.	1100 Watts min
4	Small Signal Gain	+63 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP_3	+66 dBm
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 1100 Watts
9	Spurious Signals	-60 dBc typical @ 1100 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5500 Watts max
12	AC Input	208 ± 10% VAC, single phase
13	Nominal RF Input	0 dBm
14	RF Input Overdrive	+13 dBm max
15	RF Input Signal Format	CW/AM/FM/PM
16	Class of Operation	AB
Mechanical		
17	Dimensions* (W x H x D)	22.5” x 31” x 26”
18	Weight*	300 lbs. max
19	RF Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000’ Above Sea Level
25	Shock and Vibration	Normal Truck Transport

* Dimensions and weight include cabinet enclosure.

Specifications subject to change without notice.

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

Approved By: _____ Date: _____

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FRONT PANEL CONTROLLER FEATURES

◊ 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***

ANAB ACCREDITED
Certified to ISO 9001:2008
TÜVRheinland® Precisely Right.

Approved By: _____ Date: _____