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MODEL 4043-006

**1 - 30 MHz
 500 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Band-Specific High Power RF Amplifier

The 4043-006 is a 500 Watt band-specific amplifier that covers the 1 – 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 4043-006 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.

	Parameter	Specification @ 25 °C
<u>Electrical</u>		
1	Frequency Range	2 – 30 MHz
2	Power Output @ 1dB Comp.	500 Watts min
3	Small Signal Gain	+60 dB min
4	Small Signal Gain Flatness	± 2.0 dB max
5	IP ₃	+64 dBm typical
6	Input/Output VSWR	2:1 max Fully protected against Open/Short
7	Harmonics	-20 dBc typical @ 500 Watts
8	Spurious Signals	< -60 dBc typical @ 500 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	3000 Watts max
11	AC Input	200-240 VAC ± 10%, single phase
12	RF Input	0 dBm nominal for full rated power +13dBm with no damage
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<u>Mechanical</u>		
15	Dimensions	19" x 7.0" x 26"
16	Weight	110 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature Storage Temperature	0° C to +45° C -20° C to +85° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 2000 m Above Sea Level
23	Shock and Vibration	Normal Truck Transport



FE MODEL SHOWN

◇ 4043RE-006

◇ 4043FE-006

Specifications subject to change without notice

ORDERING MODELS

Rear RF Connector model with Front Panel Controller
 Ethernet, IEEE-488 and RS232

Front RF Connector model with Front Panel Controller
 Ethernet, IEEE-488 and RS232



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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**



Certified to
ISO 9001:2008



Precisely Right.