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# MODEL 4018

## 20-100 MHz

## 2000 WATTS PEAK

## LINEAR POWER RF AMPLIFIER

### Solid State Band-Specific High Power RF Amplifier

The 4018 is a 2000 Watt band-specific amplifier that covers the 20-100 MHz frequency range. This amplifier utilizes Class A/AB 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 4018 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.



**FE Model Shown**

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	20-100 MHz
2	Saturated Output Power	2000 Watts Peak
3	Average Output Power	500 Watts CW Avg
4	Small Signal Gain	+63 dB min
5	Small Signal Gain Flatness	± 3.0 dB max
6	IP <sub>3</sub>	+66 dBm
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 500 Watts
9	Spurious Signals	-60 dBc typical @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5500 Watts max
12	AC Input	220 VAC, 50 Hz, 3Ø
13	Nominal RF Input	0 dBm for full rated power
14	RF Input Overdrive	+10 dBm max
15	RF Input Signal Format	AM Modulation
16	Class of Operation	AB
<b><u>Mechanical</u></b>		
17	Dimensions* (W x H x D)	22.5" x 31" x 26"
18	Weight*	300 lbs. max
19	RF Connectors	Input Type N Output Type-7/16
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
22	Operating Temperature	-10° C to +55° C
23	Storage Temperature	-20° C to +60° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice. \* Dimensions and weight include cabinet enclosure.

### 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

- ◇ 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

