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**MODEL 4135**  
**2.0-30.0 MHz**  
**20000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 4135 is a 20000 Watt broadband amplifier that covers the 2.0-30.0 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. This amplifier is the perfect choice for transmitting financial data long distance to a remote secure location.

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 4135 comes backed by Ophir RF's commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	2.0-30.0 MHz
2	Saturated Output Power	20000 Watts
3	Power Output @ 1dB Comp.	15000 Watts
4	Small Signal Gain	+75 dB Minimum
5	Gain Flatness	+/- 3.0 dB Max. +/- 1.0 dB over 100KHz BW
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc maximum @ 15 KW
7	Spurious Signals	-60 dBc typical @ 15 KW
9	Input/Output Impedance	50 Ohms Nominal
10	AC Input Power	45000 Watts Maximum
11	AC Input	187-264 VAC, 3Ø "Delta" (5-wire)
12	Nominal RF Input	0 dBm
13	<b>RF Input Overdrive</b>	<b>+10 dBm Maximum</b>
14	RF Input Signal Format	CW/AM/FM/PM
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions* (W x H x D)	Three Cabinets: 19" x 60" x 36"
17	Weight*	600 lb. Maximum each cabinet
18	RF Connectors	RF Input: Type-N RF Output: 3&1/8 EIA Flange
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
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



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### FRONT PANEL CONTROLLER FEATURES

- ◇ - Forward Power Monitoring (dBm or Watts)
- ◇ - Reflected Power Monitoring (dBm or Watts)
- ◇ - Gain Control (20 dB dynamic range of adjustment)
- ◇ - Fault Status
- ◇ - Full Protection Of any VSWR Condition, Open or Short.
- ◇ - 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

### CIRCUIT CONTROL

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

### CIRCUIT INDICATIONS

- ◇ - Forward Power
- ◇ - Reflected power
- ◇ - VSWR Fault
- ◇ - Temp Fault
- ◇ - Gain Setting (VVA) percentage



Proudly made  
in the U.S.A.





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**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