



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 4135**  
**2-30 MHz**  
**20000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 4135 is a 20 kW Solid State broadband amplifier that covers the 2-30 MHz frequency range. This amplifier utilizes Class AB linear power devices that provide low harmonics, high gain, and excellent stability

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.

	Parameter	Specification @ 25° C			
		Minimum	Nominal	Maximum	Unit
<b>Electrical</b>					
1	Frequency Range	2.0		30	MHz
2	Power at P <sub>SAT</sub>	16000	20000		Watts
3	Power at P <sub>1dB</sub>	10000	12500		Watts
4	Small Signal Gain	73			dB
5	Gain Flatness			7.5	dB
6	IP <sub>3</sub>		76		dBm
7	Input VSWR			2:1	Ratio
8	Harmonics (@ 12500 W)		-15		dBc
9	Spurious Signals		-60		dBc
10	Input/Output Impedance		50		Ohms
11	AC Input Power			46	kVA
12	AC Input (3 Phase)	190	208	230	VAC
13	RF Input (for rated power)		0	+3	dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse			
15	Class of Operation	Class AB			
<b>Mechanical</b>					
16	Size	Qty 4, 6' Cabinets			
17	Weight (Each Cabinet)		750		Lbs.
18	RF Connectors (Rear Panel)	RF Input Type-N Female RF Output EIA 3-1/8 Sample Ports Type-N Female			
19	Grounding	Chassis			
20	Cooling	Internal Forced Air			
<b>Environmental</b>					
21	Operating Temperature	0		40	° 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*



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 4135**  
**2-30 MHz**  
**20000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

	<u>Parameter</u>
<b><u>Front Panel Controller</u></b>	
25	Forward Power Monitoring
26	Reflected Power Monitoring
27	Gain Control (25 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR Condition, Open or Short, any Phase.
30	Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports
31	Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level
32	Standby/Enable Control
33	Front Panel Display for easy viewing of System Status Locally
34	Keypad buttons for full local control
<b><u>Circuit Protections</u></b>	
35	Thermal Overload
36	Over Current
37	Over Voltage
38	Open or Short VSWR Conditions
<b><u>Circuit Control</u></b>	
39	Standby (amplifier disable)
40	Gain/power setting with 25dB range
41	VSWR protection Reset
42	ALC On/ Off
<b><u>Circuit Indications</u></b>	
43	Forward Power
44	Reflected power
45	VSWR Fault
46	Temp Fault
47	Gain Setting (VVA) percentage

*Specifications subject to change without notice*

### **SPECIAL FEATURES AND OPTIONS**

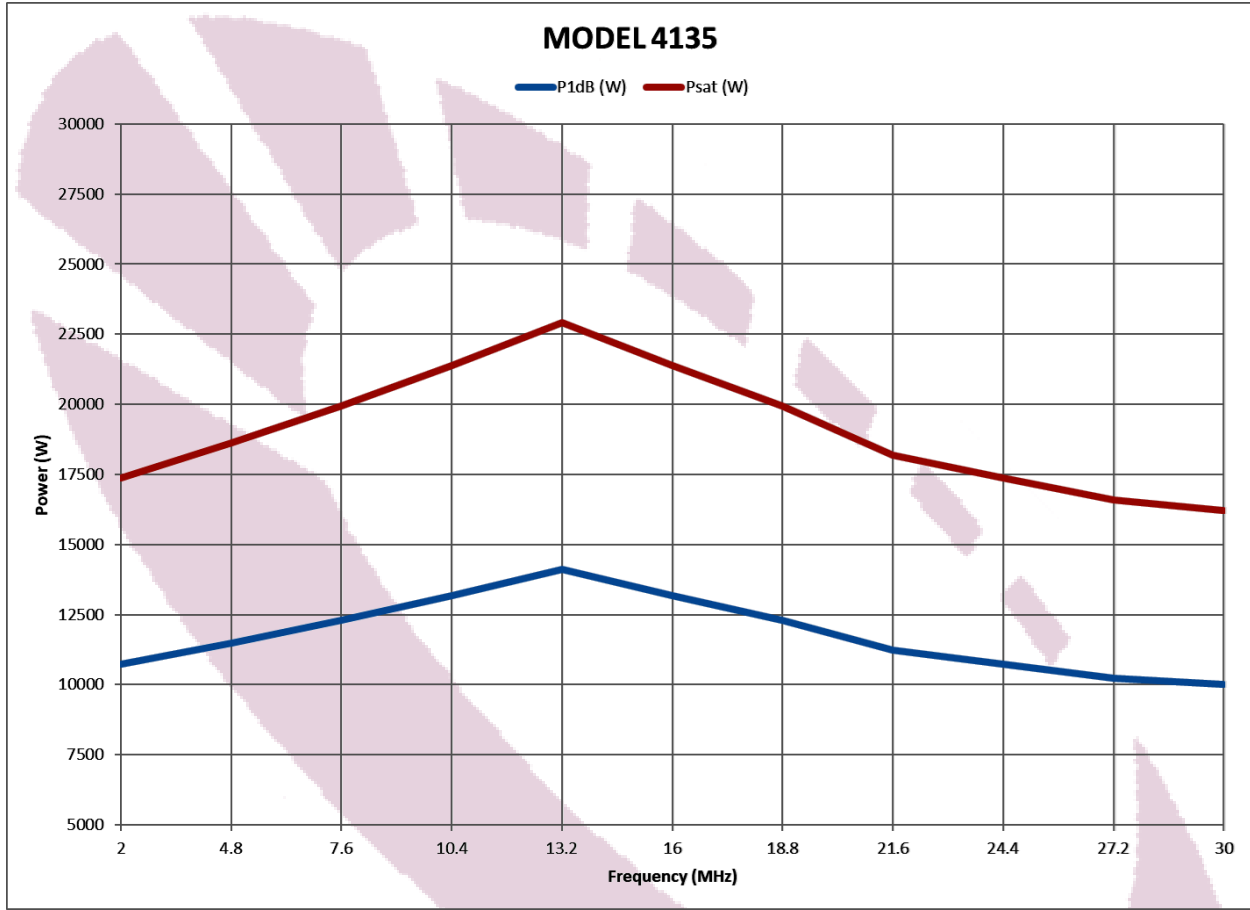
- ◇ - Available with optional internal Switched Filter Bank to meet FCC Regulatory Spectral Mask Compliance.





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 4135**  
**2-30 MHz**  
**20000 WATTS**  
**LINEAR POWER RF AMPLIFIER**



*Specifications subject to change without notice*



**Four, 6' Racks**

1023 Approved By: \_\_\_\_\_ Date: \_\_\_\_\_