



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 4136E**  
**6.0-18 GHz**  
**40 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 4136E is a 40 Watt broadband amplifier that covers the 6.0-18 GHz frequency range. This amplifier utilizes latest generation Gallium Nitride (GaN) power devices that provide, 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 4136E comes with an extended multiyear warranty backed by the OPHIR<sub>RF</sub> commitment to total customer satisfaction.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	6.0-18 GHz
2	Output Power P <sub>SAT</sub> 6.0-18.0 GHz	40 Watts Nominal
3	Small Signal Gain	+41 dB Minimum
4	Gain Flatness (P <sub>sat</sub> )	± 5.0 dB Maximum
5	IP <sub>3</sub>	+48 dBm typical
6	Input VSWR	2:1 Nominal
7	Harmonics	-15 dBc Minimum @ 5 Watts -20 dBc Nominal @ 5 Watts
8	Spurious Signals	< -60 dBc Nominal @ 5 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	1,000 Watts Maximum
11	AC Input	90 – 240 VAC, single phase
12	RF Input	0 dBm Nominal <b>+3 dBm Max</b>
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	Class A
<b><u>Mechanical</u></b>		
15	Dimensions (3RU)	19" x 5.25" x 21"
16	Weight	46 lbs.
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

*Specifications subject to change without notice*



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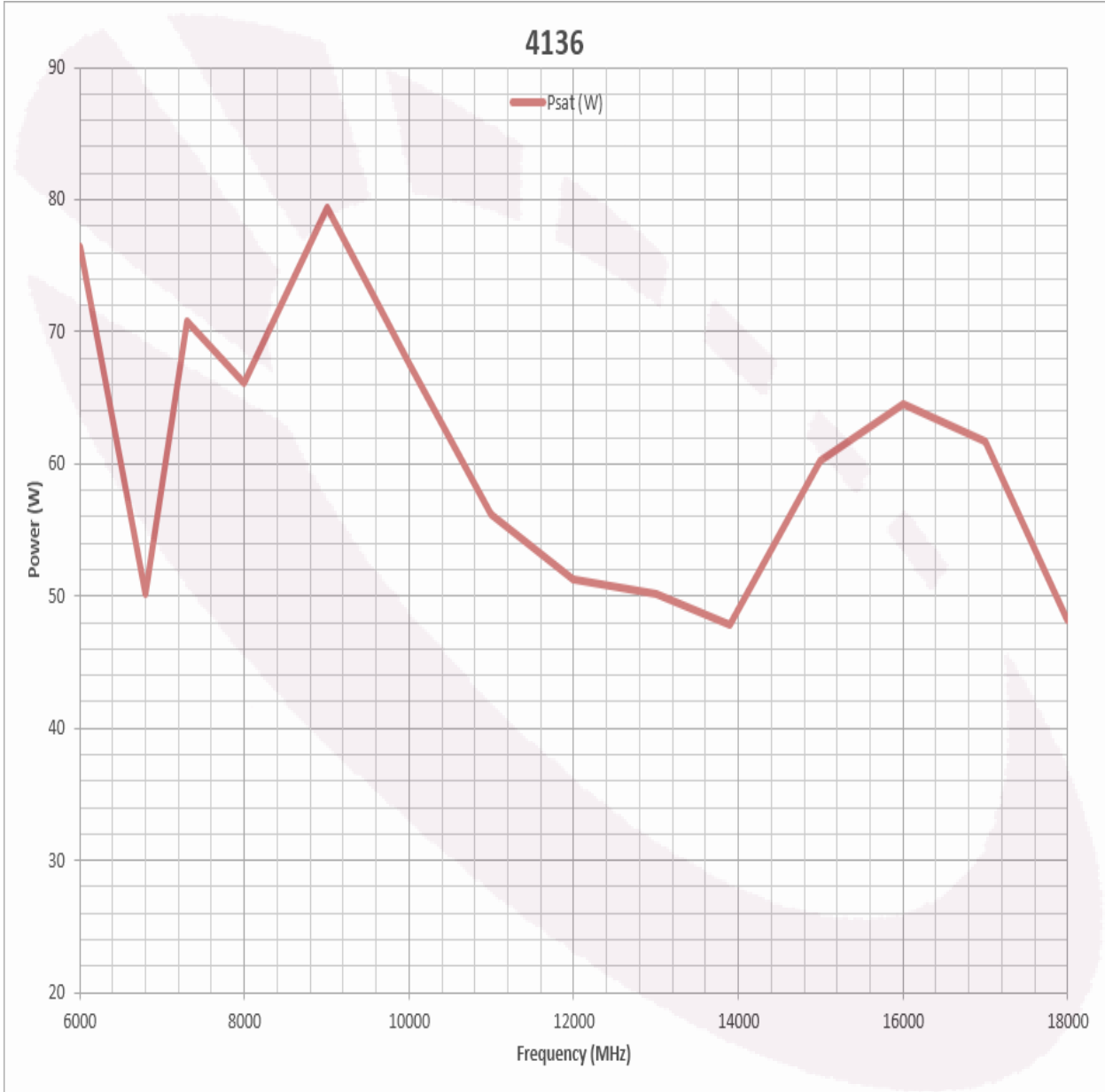
	<u>Parameter</u>
<b><u>Front Panel Controller</u></b>	
	<i>Included with the "E" option ; Front Panel Controller</i>
25	Forward Power Monitoring (dBm or Watts)
26	Reflected Power Monitoring (dBm or Watts)
27	Gain Control (15 dB dynamic range of adjustment)
28	Fault Status
29	Full Protection Of any VSWR 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>	
	<i>(Included with Front Panel Controller)</i>
39	Standby (amplifier disable)
40	Gain/power setting with 15 dB 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





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**FE VERSION SHOWN**  
**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

