



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 5135A-001

0.8 - 2.0 GHz

275 WATTS

LINEAR POWER RF AMPLIFIER

### Solid State Broadband High Power RF Amplifier

The 5135A-001 is a 275 Watt broadband amplifier that covers the 0.8 – 2.0 GHz frequency range. This small and lightweight 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 5135A-001 comes with an extended multiyear warranty.

### CIRCUIT PROTECTIONS

- Thermal Overload
- Over Current
- Over Voltage

### ORDERING MODELS

- R - Rear Panel Connectors
- F - Front Panel Connectors
- RE - R model w/Control Option
- FE - F model w/Control Option
- RT - RE model w/Ethernet Interface
- FT - FE model w/Ethernet Interface

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

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	275 Watts typical
3	Output Power @ 1dB Comp.	220 Watts min
4	Small Signal Gain	+56 dB min
5	Small Signal Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+64 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 220 Watts
9	Spurious Signals	> -60 dBc typical @ 220 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2000 Watts max
12	AC Input	208 + 10% VAC, single phase
13	RF Input	+10 dBm max
14	Blanking	See Information Below
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<b>Mechanical</b>		
17	Dimensions	19" x 8.75" x 26.5"
18	Weight	100 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b>Environmental</b>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

### Blanking

- Rise / Fall time is 500uSec
- Blanked Isolation 60dB
- Blanking connection is BNC
- TTL High = On, TTL Low = Off

Specifications subject to change without notice.

