



5200 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)821-7413  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5135**  
**800-2000 MHz**  
**300 WATTS**  
**RF POWER AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5135 is a very high power broadband amplifier that covers the 800-2000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3<sup>rd</sup> order intercept point, high gain, a wide dynamic range, and an industry leading P1dB performance.

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 5135 comes with a multiyear warranty 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               | 0.8-2.0 GHz                   |
| 2                           | Output Power P <sub>SAT</sub> | 300 Watts Minimum             |
| 3                           | Output Power P <sub>1dB</sub> | 150 Watts Minimum             |
| 4                           | Small Signal Gain             | +56 dB Minimum                |
| 5                           | Gain Flatness                 | ± 2.5 dB Maximum              |
| 6                           | IP <sub>3</sub>               | + 60 dBm typical              |
| 7                           | Input VSWR                    | 2:1 max                       |
| 8                           | Harmonics                     | -20 dBc min @ 150 Watts       |
| 9                           | Spurious Signals              | < -60 dBc typical @ 150 Watts |
| 10                          | Input/Output Impedance        | 50 Ohms nominal               |
| 11                          | AC Input Power                | 2000 Watts Maximum            |
| 12                          | AC Input                      | 100-240 VAC, Single Phase     |
| 13                          | RF Input                      | 0 dBm nominal                 |
| 14                          | RF Input Signal Format        | CW/AM/FM/PM/Pulse             |
| 15                          | Class of Operation            | Class A                       |
| <b><u>Mechanical</u></b>    |                               |                               |
| 16                          | Dimensions (H x W x D)        | 5.25" x 19.0" x 24"           |
| 17                          | Weight                        | 68 Lbs. Nominal               |
| 18                          | RF Connectors                 | Type-N Female Input/Output    |
| 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        |



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|                                      | <u>Parameter</u>   |
|--------------------------------------|--|
| <b><u>Front Panel Controller</u></b> | <b><u>Optional Feature</u></b>   |
| 25                                   | Forward Power Monitoring (dBm or Watts)  |
| 26                                   | Reflected Power Monitoring (dBm or Watts)  |
| 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 <i>(With Front Panel Controller)</i>   |
| <b><u>Circuit Control</u></b>        | <i>(With Front Panel Controller)</i>   |
| 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 <i>(With Front Panel Controller)</i>   |
| 44                                   | Reflected power <i>(With Front Panel Controller)</i>   |
| 45                                   | VSWR Fault <i>(With Front Panel Controller)</i>  |
| 46                                   | Temp Fault   |
| 47                                   | Gain Setting (VVA) percentage <i>(With Front Panel Controller)</i>   |





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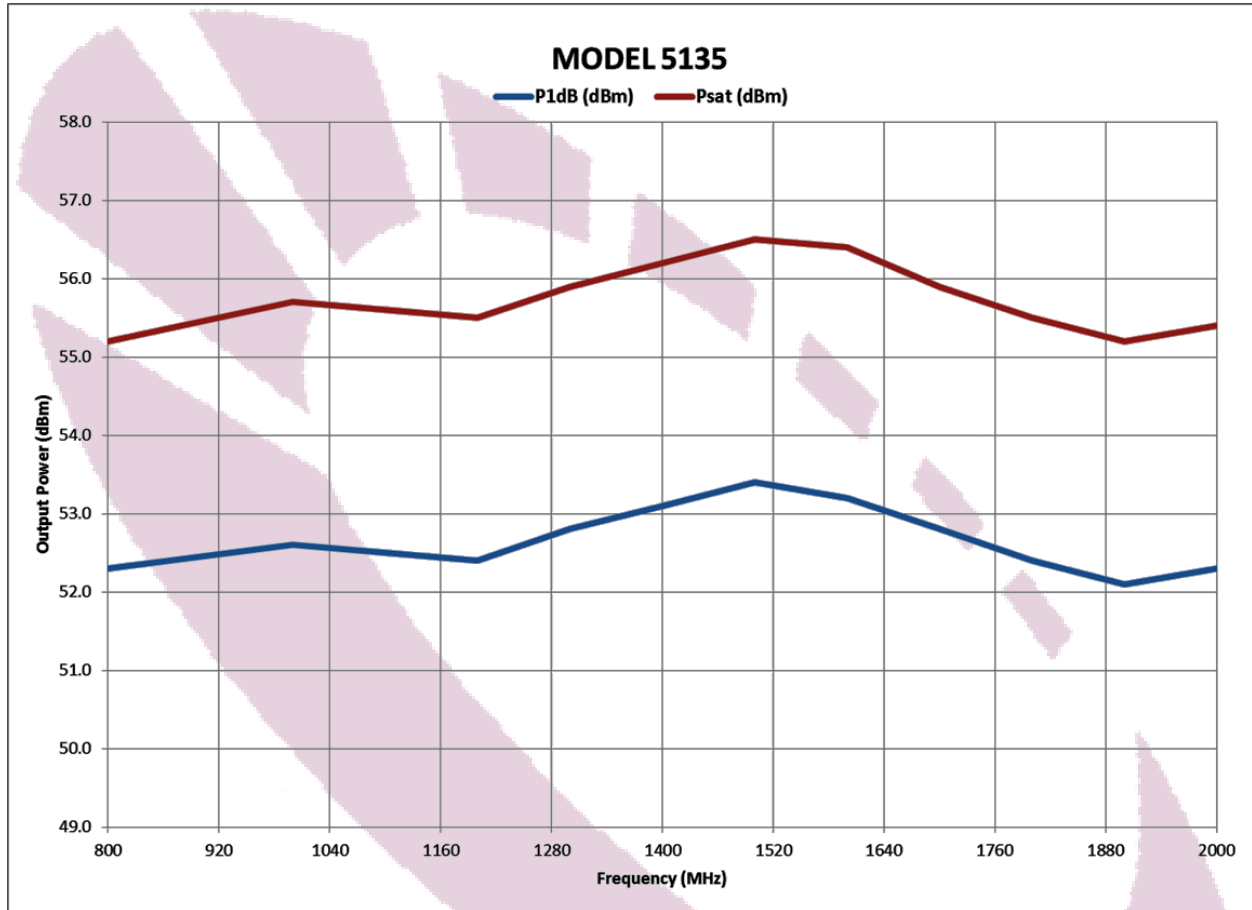
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*SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE*



### 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
- R** ◇ Rear RF Connector model
- F** ◇ Front RF Connector model