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## MODEL 5136A-003

**0.8 - 2.0 GHz**  
**500 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5136A-003 is a 500 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.

### CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection

### CIRCUIT INDICATIONS

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

### ORDERING MODELS

- ◇ RE - Rear Panel RF Connector model with RS232, IEEE, & Ethernet
- ◇ FE - Front Panel RF Connector model with RS232, IEEE, & Ethernet

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	500 Watts min.
3	Power Output @ 1dB Comp.	300 Watts min
4	Small Signal Gain	+58 dB min
5	Power Flatness @ each band	+/- 2.5 dB max with no ALC +/- 1 dB max with internal leveling
6	IP <sub>3</sub>	+65 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	180 – 264 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	19" x 14" x 26"
17	Weight	150 lb. max
18	Connectors	Type-N (RF Input) 7/16 DIN (RF Output)
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b>Environmental</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

### CIRCUIT CONTROL

- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset

### -003 SPECIAL FEATURES

- ◇ Pulsed or CW operation
- ◇ Limited Power Monitoring and ALC function in Pulsed Mode
- ◇ Forward Power Sample Port on Rear Panel
- ◇ Pulse Rise and Fall Times less than 100 nSec

Specifications subject to change without notice