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## MODEL 5067AFE-001

**10 - 100 MHz**  
**1000 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5067AFE-001 is a 500 Watt broadband amplifier that covers the 10 – 100 MHz frequency range. This 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.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	10 – 100 MHz
2	Saturated Output Power	1000 Watts rated
3	Power Output @ 1dB Comp.	500 Watts typical
4	Small Signal Gain	+61 dB min
5	Small Signal Gain Flatness	± 2.0 dB max ± 1.25 dB max with ALC
6	IP <sub>3</sub>	+63 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 500 Watts
9	Spurious Signals	< -60 dBc typical @ 500 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	5000 Watts max
12	AC Input	200 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b><u>Mechanical</u></b>		
16	Dimensions	31" x 24" x 26"
17	Weight	190 lb. max
18	Connectors	Type-N
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



### CIRCUIT PROTECTIONS

- ◇ Thermal Shutdown
- ◇ Built-in Current Monitoring
- ◇ Over Voltage
- ◇ Fast High Output VSWR Protection
- ◇ RF Input Overdrive Protection

Specifications subject to change without notice.

### ORDERING MODELS

- ◇ FE - Front panel RF connectors with controller option, and full communication ports.