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MODEL 5050-001
30 - 100 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5050-001 is a 500 Watt broadband amplifier that covers the 30 – 100 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd 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 @ >2.5:1

ORDERING MODELS

- ◇ RE - R model w/Control Option
- ◇ FE - F model w/Control Option
- ◇ RT - RE model w/Ethernet Interface
- ◇ FT - FE model w/Ethernet Interface

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	30 – 100 MHz
2	Saturated Output Power	500 Watts typical
3	Power Output @ 1dB Comp.	300 Watts min
4	Small Signal Gain	+57 dB min
5	Gain Flatness / with ALC	± 1.5 / ± 0.5 dB max
6	IP ₃	+61 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 300 Watts
9	Spurious Signals	> -60 dBc typical @ 300 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2000 Watts max
12	AC Input	220 – 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
16	Blanking control	External BNC with TTL "High" for Enable "Low" for Blanking
17	Blanking Speed	Off to On 100uS max On to Off 40uS max
<u>Mechanical</u>		
18	Dimensions	19" x 8.75" x 20"
19	Weight	80 lb. max
20	Connectors	Type-N
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
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

