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MODEL 5155-001

0.7 - 3 GHz

320 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5155-001 is a 320 Watt broadband amplifier that covers the 0.7 – 3 GHz 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

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	0.7 – 3 GHz
2	Saturated Output Power	320 Watts min. @ 0.8 to 2.5GHz 250 Watts min. @ 0.7 to 3GHz
3	Power Output @ 3dB Comp.	250 Watts min. @ 0.8 to 2.5GHz 200 Watts min. @ 0.7 to 3GHz
4	Small Signal Gain	+57 dB min
5	Power Flatness	+/- 1 dB max @ 0.8 to 2.5GHz
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc max.
8	Gain control	20dB min via an external 0 to 5V analog voltage
9	Spurious Signals	> -60 dBc max.
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	2500 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
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 26"
17	Weight	85 lb. max
18	Connectors	Type-N Female for RF BNC for Analog gain control 9 pin D-sub for: Interlock, VSWR fault, VSWR reset, detected Fwd and Rev power, temperature fault
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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