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MODEL 5303102-001

700 - 1000 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303102-001 is a 100 Watt broadband amplifier that covers the 700 – 1000 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.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	700 – 1000 MHz
2	Saturated Output Power	100 Watts Min
3	Small Signal Gain	+51dB min
4	Gain Flatness	+/- 1.5dB max
5	IP ₃	+56 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 100 Watts
8	Spurious Signals	> -60 dBc typical @ 100 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	16Amps typ 0.8 Amp max @ blanked
11	DC Input	28 VDC nominal
12	Blanking - TTL	"High": un-blanked "Low": Blanked
13	Blanking Speed	1mS
14	Temperature indication	LM35 equivalent
<u>Mechanical</u>		
15	Dimensions	6" x 7" x 1"
16	Weight	2 lb. max
17	Connectors	SMA female for RF input / output Feed through for 28V, Gnd
18	Grounding	Chassis
	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
19	Baseplate Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck Transport