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MODEL 5303006A-013
30 - 512 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303006A-013 is a 50 Watt broadband amplifier that covers the 30 – 512 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	30 – 512 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	25 Watts min
4	Small Signal Gain	+30dB nominal when 7dB attenuation is selected
5	Small Signal Gain Flatness	+/-1.2dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 25Watts
9	Spurious Signals	> -60 dBc typical @ 25 Watts
10	Noise Figure	7dB max Include all attenuation settings
11	DC Input Current	10 Amps max
12	DC Input	28 VDC nominal
13	Digital step attenuator	Incorporated between stages
14	Digital Attenuator setting	3 bits, 1dB, 2dB, 4dB
15	Blanking	Enable - 5V "High" Disable - 0V "low"
16	Blanking Speed	On to Off - 5uS max Off to On - 80uS max
<u>Mechanical</u>		
17	Dimensions	6" x 3" x 1.1"
18	Weight	2 lb. max
19	Connectors	SMA female for RF Filtered Feed thru for other
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-40°C to +85°C for output power less or equal to 25W
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

