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MODEL 5303006A-017

20 - 500 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303006A-017 is a 50 Watt broadband amplifier that covers the 20-500 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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.

This is the perfect choice for many different Electronic Warfare and Tactical Communications applications

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 500 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+51 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	280 Watts @ full rated power 140 Watts @ 25 watts
12	DC Input	28 VDC nominal
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	6" x 3" x 1.1"
17	Weight	1 Lb.
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Baseplate Temperature	-40° C to +55° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	MIL-STD 810 (Method 516.6/ Method 514.6)

Specifications subject to change without notice.





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