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MODEL 5803006A-006
420 - 450 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5803006A-006 is a 50 Watt broadband amplifier that covers the 420 – 450 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. Like all OPHIR_{RF} amplifiers, the 5803006A-006 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	420 – 450 MHz
2	Saturated Output Power	50 Watts min
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+32 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	Noise Figure	7dB typ.
11	DC Input Current	10 Amps max
12	DC Input	28 VDC nominal
13	RF Input	+13 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	8.7" x 5.2" x 3.5"
17	Weight	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Included
Environmental		
21	Baseplate 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

Specifications subject to change without notice.

