



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5303006A-003

225 - 400 MHz
50 WATTS

Solid State Broadband High Power RF Amplifier

The 5303006A-003 is a 50 Watt broadband amplifier that covers the 225 – 400 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 5303006A-003 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	225 – 400 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	35 Watts min
4	Small Signal Gain	+43 dB min
5	Gain Flatness	1.5 dB max
6	IP ₃	+52 dBm typical
7	Input VSWR	2:1 max
8	Noise Figure	12 dB max
9	Harmonics	-20 dBc typical @ 35 Watts
10	Spurious Signals	> -60 dBc typical @ 35 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	10 Amps max
13	DC Input	28 VDC
14	RF Input	+5 dBm max
15	RF Input Signal Format	CW/AM/FM
16	Class of Operation	AB
Mechanical		
17	Dimensions	6" x 3" x 1.1"
18	Weight	2 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



ADDED FEATURES

- Enable/Disable Pin