



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 5803025-001

2 - 4 GHz
15 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5803025-001 is a 15 Watt broadband amplifier that covers the 2 – 4 GHz 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	2.0 – 4.0 GHz
2	Saturated Output Power	15 Watts typical
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	43 dB min
5	Gain Flatness	± 2 dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	> -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	10 Amps max
12	DC Input	13 VDC nominal
13	RF Input	0 dBm nominal
14	Maximum RF input	+10dBm max
15	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	6.1" x 9.750" x 4.2"
16	Weight	7 lb. max
17	Connectors	SMA Female
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<u>Environmental</u>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

Custom Features

- Driver Module
- HeatSink
- Fans