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MODEL 5802031-002

1.805 - 1.880 GHz
150 WATTS

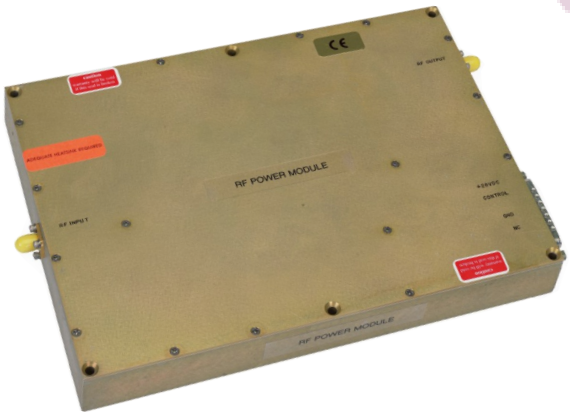
Solid State Band-specific High Power RF Amplifier

The 5802031-002 is a 150 Watt band-specific amplifier that covers the 1.805 – 1.88 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. Like all OPHIR$_{RF}$ amplifiers, the 5802031-002 comes with an extended

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.805 – 1.88 GHz
2	Saturated Output Power	150 Watts typical
3	Power Output @ 1dB Comp.	120 Watts min
4	Small Signal Gain	+53 dB min
5	Gain Flatness	± 1.0 dB max
6	IMD	-33 dBc typical @ 30 Watts
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 120 Watts
9	Spurious Signals	> -60 dBc typical @ 120 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	32 Amps max
12	DC Input	12 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	14.5" x 9.8" x 4.1"
17	Weight	20 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Airflow Required
Environmental		
21	Operating 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.



FEATURES:

Heatsink and Fans Included