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MODEL 5803081-001

1.0 - 2.5 GHz
10 WATTS

Solid State Broadband High Power RF Amplifier

The 5803081-001 is a 10 Watt broadband amplifier that covers the 1.0 – 2.5 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 5803081-001 comes with an extended warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 2.5 GHz
2	Saturated Output Power	10 Watts typical
3	Small Signal Gain	+40 dB min
4	Gain Flatness	± 1.5 dB max
5	IP ₃	+46 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 5 Watts
8	Spurious Signals	> -60 dBc typical @ 5 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	5 Amps max 2.5 Amps w/o RF
11	DC Input	13 VDC nominal
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
Mechanical		
15	Dimensions (w/ Heatsink)	8.3" x 5.2" x 3.4"
16	Weight (w/ Heatsink)	5 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Heatsink Provided
Environmental		
20	Baseplate 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

