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MODEL 5803084-200

0.5 - 3.0 GHz
50 WATTS EACH MODULE
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5803084-200 is a heatsink assembly which consists of two (2) 5303084 module amplifiers.

This system provides 50-Watts per module across the 0.5 – 3.0 GHz frequency range. This small and lightweight system 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 5803084-200 comes with an extended warranty.

Specifications subject to change without notice.

FEATURES:

Heatsink and fans included.

	Parameter	Specifications @ 25° C
Electrical		
1	Frequency Range	0.5– 3 GHz
2	Saturated Output Power	50 Watts typ
3	Small Signal Gain	+48 dB min
4	Power Gain Flatness	± 2 dB max
5	Input VSWR	2:1 max
7	Harmonics	-15 dBc typical
8	Spurious Signals	< -60 dBc typical
9	Remote shut down	5V to Enable 0V to Disable
10	Blanking	TTL, 5µS On/Off
11	DC Consumption	300 W maximum
12	DC Input Voltage	28 - 48 Vdc
13	Temp Indication	Analog voltage reporting with LM35 or equivalent
14	Current Indication	Analog voltage reporting
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
16	Dimensions (with Heatsink)	17.5" x 9.8" x 4.1"
17	Weight (with Heatsink)	25 lbs. max
18	RF Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Ventilation 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 are per single module.

