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MODEL 5810295
2.065 - 2.215 GHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5810295 is a 50 Watt broadband amplifier that covers the 2.065 – 2.215 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 5810295 comes with an extended warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	2.065 – 2.215 GHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	40 Watts min
4	Small Signal Gain	+47 dB min
5	Gain Flatness	± 0.75 dB max*
6	IP ₃	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 40 Watts
9	Spurious Signals	< -60 dBc typical @ 40 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	12 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 (w/ Heatsink)	8.3" x 5.2" x 3.4"
17	Weight (w/ Heatsink)	5 lbs.
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Heatsink Provided
Environmental		
21	Baseplate 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

Included Feature:

- Mounted on a Heat Sink with fans
- Forward power Monitor V-out
- Enable/Disable:
 - Open = Enable; 3-5 Vdc = Disable

