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MODEL 5902029
1.8 - 2.0 GHz
80 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Band-specific High
 Power RF Amplifier**

The 5902029 is an 80 Watt band-specific amplifier that covers the 1.8 – 2.0 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 5902029 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.8 – 2.0 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	80 Watts typical
4	Power Output @ 1dB Comp.	60 Watts min
5	Power Output CDMA	15 Watts typical
6	Small Signal Gain	+51 dB min
7	Gain Flatness	± 1.0 dB max
8	IP ₃	+58 dBm typical
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 60 Watts
11	Spurious Signals	< -60 dBc typical @ 60 Watts
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current	15 Amps max
14	DC Input	13 VDC nominal
15	RF Input	+10 dBm max
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
Mechanical		
16	Dimensions (w/Heatsink)	9.8" x 9.8" x 4.1"
17	Weight (w/Heatsink)	20 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
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

Specifications subject to change without notice.



FEATURES:
 Heatsink included (not shown)