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MODEL 5302029-001

1.94 - 2.0 GHz
80 WATTS

Solid State Band-specific High Power RF Amplifier

The 5302029-001 is an 80 Watt band-specific amplifier that covers the 1.94 – 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 5302029-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.94 – 2.0 GHz
2	Saturated Output Power	80 Watts typical
3	Power Output @ 1dB Comp.	60 Watts min
4	Power Output CDMA	15 Watts typical
5	Small Signal Gain	+51 dB min
6	Gain Flatness	± 1.0 dB max
7	IP ₃	+58 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 60 Watts
10	Spurious Signals	> -60 dBc typical @ 60 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	15 Amps max
13	DC Input	13 VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	9.0" x 6.4" x 1.1"
18	Weight	4 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

