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## MODEL 5302031-001

**1.8 - 2.0 GHz**  
**120 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5302031-001 is a 120 Watt 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 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5302031-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	1.8 – 2.0 GHz
2	Saturated Output Power	120 Watts typical
3	Power Output @ 1dB Comp.	90 Watts min
4	Small Signal Gain	+53 dB min
5	Gain Flatness	± 1.0 dB max
6	IP <sub>3</sub>	+59 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 90 Watts
9	Spurious Signals	> -60 dBc typical @ 90 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	32 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b>Mechanical</b>		
16	Dimensions	12.8" x 7.6" x 1.1"
17	Weight	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
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 subject to change without notice.

