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MODEL 5302031

1.8 - 2.0 GHz
150 WATTS
LINEAR POWER RF AMPLIFIER

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

The 5302031 is a 150 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 5302031 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification</u>
<u>Electrical</u>		
1	Frequency Range	1.8 – 2.0 GHz
2	Saturated Output Power	150 Watts typical
3	Power Output @ 1dB Comp.	120 Watts min
4	Power Output CDMA	30 Watts typical
5	Small Signal Gain	+53 dB min
6	Gain Flatness	± 1.0 dB max
7	IP ₃	+59 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 1 dB comp.
10	Spurious Signals	> -60 dBc
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current @ 30W	32 Amps max
13	DC Input	12 – 13 VDC nominal
14	RF Input Overdrive	+10 dB over 1 dB Compression
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB Linear
<u>Mechanical</u>		
17	Dimensions	12.75" x 7.56" x 1.1"
18	Weight	6 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
21	Operating 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

AVAILABLE OPTIONS

- ◇ Gain Adjustment
- ◇ Automatic Level Control
- ◇ Extended Temperature Range
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Microprocessor Controlled
- ◇ Built-in Monitoring

