OPHIR RF

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MODEL 5302031-075

1.805 - 1.880 GHz
150 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5302031-075 is a 150 Watt band-specifc amplifier that covers the 1.805 – 1.880 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 5302031-075 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.805 – 1.880 GHz
2	Saturated Output Power	150 Watts typical
3	Power Output @ 1dB Comp.	120 Watts typical.
4	Power Output CDMA	30 Watts typical
5	Small Signal Gain	+53 dB min
6	Gain Flatness	$\pm$ 1.25 dB max
7	IP$_3$	+59 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 120 Watts
10	Spurious Signals	< -60 dBc typical @ 120 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	32 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	12.8" x 7.6" x 1.1"
18	Weight	6 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	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

Specifications subject to change without notice.

Output Protection:
Can operate into a full Open or Short, without damage, due to the use of an Internal Circulator and Load.

Forward Power Voltage Detector Output   **Reverse Power Voltage Detector Output**