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MODEL 5302030-004

1.805 - 1.88 GHz
40 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5302030-004 is a 40 Watt band-specific amplifier that covers the 1.805 – 1.88 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 5302030-004 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.805 – 1.88 GHz
2	Instantaneous Bandwidth	75 MHz min
3	Saturated Output Power	40 Watts typical
4	Power Output @ 1dB Comp.	30 Watts min
5	Power Output CDMA	7.5 Watts typical
6	Small Signal Gain	+45 dB min
7	Gain Flatness	± 1.0 dB max
8	IP ₃	+55 dBm typical
9	Input VSWR	2:1 max
10	Harmonics	-20 dBc typical @ 30 Watts
11	Spurious Signals	< -60 dBc typical @ 30 Watts
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current	10 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		
18	Dimensions	6.55" x 4" x 1.1"
19	Weight	3 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Operating Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



Shutdown:

+5V (Disable)
GND or Open (Enable)

Output Protection:

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