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MODEL 5302030-011

1.805 - 1.88 GHz
30 WATTS

Solid State Band-specific High Power RF Amplifier

The 5302030-011 is a 30 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 5302030-011 comes with an extended warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.805 – 1.88 GHz
2	Saturated Output Power	30 Watts typical
3	Power Output @ 1dB Comp.	25 Watts min
4	Small Signal Gain	+46 dB min
5	Gain Flatness	± 1.0 dB max
6	IMD	-34 dBc typ @ P _{out} = 10 Watts
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 25 Watts
9	Spurious Signals	> -60 dBc typical @ 25 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	9 Amps max
12	DC Input	12 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions (w/Heatsink)	8.7" x 5.2" x 3.5"
17	Weight (w/Heatsink)	6 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Heatsink and fans included
Environmental		
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
Special Features		
25	Temperature monitoring	Indicated by DC Voltage
26	Forward Power Monitoring	Indicated by DC Voltage

