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## MODEL 5802030-014

**1.805 - 1.88 GHz  
40 WATTS  
LINEAR POWER RF AMPLIFIER**

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

The 5802030-014 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 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 5802030-014 comes with an extended warranty.

Specifications subject to change without notice.



**FEATURES:** Heatsink with fans included (not shown)

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	1.805 – 1.88 GHz
2	Saturated Output Power	40 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 <sub>out</sub> = 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	15 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
<b>Mechanical</b>		
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
<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

### Special Note for Range Networks/Kestrel Signal Processing:

The initial order (PO 132919) of this module will contain modules of slightly varying sizes, due to the time factor involved with this order. All future units will be according to this specification.

**\*\*\*Overall height of units will not be impacted\*\*\***