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MODEL 5302030-003

1.85 - 1.91 GHz
40 WATTS

Solid State Band-specific High Power RF Amplifier

The 5302030-003 is a 40 Watt band-specific amplifier that covers the 1.85 – 1.91 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 5302030-003 comes with an extended

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.85 – 1.91 GHz
2	Instantaneous Bandwidth	60 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	+47 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	8 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
<u>Mechanical</u>		
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
<u>Environmental</u>		
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.

