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5302027-001

1.800-1.885 GHz

12 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Band-Specific High Power RF Amplifier

The 5302027-001 is a 12 Watt amplifier that covers the 1.800-1.885GHz 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 5302027-001 comes with an extended warranty.

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	1.800-1.885 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	12 Watts typical
4	Power Output @ 1dB Comp.	10 Watts min
5	Small Signal Gain	+45 dB min
6	Gain Flatness	±1.0 dB max
7	IP ₃ *	+50 dBm min
8	Input VSWR	2:1 max.
9		
10	Harmonics	-20 dBc typical @ 10 W Pout
11	Spurious Signals	> -60 dBc typical @ 10 W Pout
12	DC Input Current	3.5 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	AB
17		
Mechanical		
18	Dimensions	6.0" x 2.75" x 0.8"
19	Weight	1 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Baseplate Temperature	0° C to +70° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport

* IP₃ is measured with a two tone signal, 500 KHz spacing.

