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5302027-004

1.93 - 1.99 GHz

12 WATTS

LINEAR POWER RF AMPLIFIER

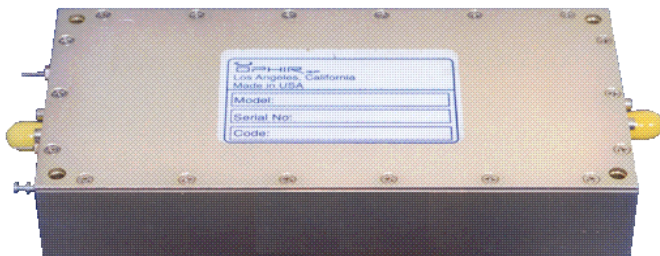
Solid State Band-Specific High Power RF Amplifier

The 5302027-004 is a 12 Watt amplifier that covers the 1.93 - 1.99 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 5302027-004 comes with an extended warranty.

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	1.93 - 1.99 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	Harmonics	-20 dBc typical @ 10 W Pout
10	Spurious Signals	< -60 dBc typical @ 10 W Pout
11	DC Input Current	3.5 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	6.0" x 2.75" x 0.8"
17	Weight	1 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Baseplate Temperature	0° C to +70° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



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