



5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)577-9887
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

5312027-005

1.805-1.880 GHz
12 WATTS

Solid State Band-Specific High Power RF Amplifier

The 5312027-005 is a 12 Watt amplifier that covers the 1.805-1.88GHz 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 5312027-005 comes with an extended

	Parameter	Specification @ 25 °C
Electrical		
1	Frequency Range	1.805-1.880GHz
2	Instantaneous Bandwidth	75 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	14.0 ± 1.0 VDC
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.

