



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

**5302027-003**

**1.805-1.865 GHz**

**12 WATTS**

**LINEAR POWER RF AMPLIFIER**

## Solid State Band-Specific High Power RF Amplifier

The 5302027-003 is a 12 Watt amplifier that covers the 1.805-1.865GHz 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 5302027-003 comes with an extended warranty.

	Parameter	Specification @ 25 °C
<b><u>Electrical</u></b>		
1	Frequency Range	1.805-1.865 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	+41 dB min
6	Gain Flatness	±1.0 dB max
7	IP <sub>3</sub>	+50 dBm nom
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 VDC ± 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		
<b><u>Mechanical</u></b>		
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
<b><u>Environmental</u></b>		
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

Specifications subject to change without notice.

