



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

## MODEL 5302029-002

**1.8 - 2.0 GHz**  
**80 WATTS**

### Solid State Band-specific High Power RF Amplifier

The 5302029-002 is an 80 Watt band-specific amplifier that covers the 1.8 – 2.0 GHz 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 5302029-002 comes with an extended

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	1.8 – 2.0 GHz
2	Instantaneous Bandwidth	75 MHz min
3	Saturated Output Power	80 Watts typical
4	Power Output @ 1dB Comp.	60 Watts min
	Small Signal Gain	+51 dB min
6	Gain Flatness	± 0.5 dB max for any 75 MHz
7	IP <sub>3</sub>	+60 dBm typical
8	Input VSWR	2:1 max
9	Noise Figure	10 dB typical
10	Harmonics	-40 dBc typical @ 60 Watts
11	Spurious Signals	> -60 dBc typical @ 60 Watts
12	Input/Output Impedance	50 Ohms nominal
13	DC Input Current	8 Amps max
14	DC Input	28 VDC nominal
15	RF Input	+10 dBm max
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
18	Dimensions	9.0" x 6.4" x 1.1"
19	Weight	4 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 +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.

