



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 5802015**

**2.4 - 2.5 GHz**  
**10 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5802015 is a 10 Watt band-specific amplifier that covers the 2.4 – 2.5 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 5802015 comes with an extended

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	2.4 – 2.5 GHz
2	Saturated Output Power	10 Watts typical
3	Power Output @ 1dB Comp.	8 Watts min
4	Small Signal Gain	+41 dB min
5	Gain Flatness	± 0.75 dB max
6	IP <sub>3</sub>	+49 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 8 Watts
9	Spurious Signals	< -60 dBc typical @ 8 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	3.5 Amps max
12	DC Input	13 VDC
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions (with heatsink)	4.0" x 2.8" x 3.3"
17	Weight (with heatsink)	4 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Needs 2" Clearing From Fan
<b><u>Environmental</u></b>		
21	Operating Temperature	0° C to +50° 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.

**FEATURES**

- ◇ Forward Power Monitor, 0 – 4 Volts
- ◇ Enable/Disable Control  
 Enable 0 Volts , Disable 5 Volts, Threshold 1.3~1.4 Volts
- ◇ Heatsink and Fan