



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)821-7413  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5302075**  
**800 - 1000 MHz**  
**40 WATTS**  
**LINEAR POWER RF AMPLIFIER**

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

The 5302075 is a 40 Watt band-specific amplifier that covers the 800 – 1000 MHz 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 5302075 comes with an extended multiyear warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	800 – 1000 MHz
2	Instantaneous Bandwidth*	60 MHz min*
3	Saturated Output Power	40 Watts typical
4	Power Output @ 1dB Comp.	30 Watts min
5	Small Signal Gain	+50 dB min
6	Gain Flatness	± 1.0 dB max
7	IP <sub>3</sub>	+55 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 30 Watts
10	Spurious Signals	< -60 dBc typical @ 30 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	8 Amps max
13	DC Input	13 VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
17	Dimensions	6.55" x 4" x 1.1"
18	Weight	3 lb. max
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

\* = Please specify 60MHz Instantaneous Bandwidth before placing order.

