



5300 Beethoven Street, Los Angeles, CA 90066  
 TEL: (310)306-5556 • FAX: (310)577-9779  
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

**MODEL 5912043-002**

**851 - 960 MHz**  
**120 WATTS**

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

The 5912043-002 is a 120 Watt band-specific amplifier that covers the 851 – 960 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 5912043-002 comes with an extended

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	851 – 960 MHz
2	Saturated Output Power	120 Watts typical
3	Class of Operation	AB
4	Power Gain	+24 dB min @ 100 Watts
5	Gain Flatness	± 1.0 dB max
6	Input/Output VSWR	2:1 max
7	Efficiency	30% typical @ 100 Watts
8	RF Input	+27 dBm nominal
9	DC Input	13 VDC nominal 14 VDC max 12 VDC with degradation
10	DC Input Current	22 Amps max
<b>Mechanical</b>		
11	Dimensions (w/Heatsink)	9.5" x 7.0" x 2.5" (TBD)
12	Weight (w/Heatsink)	7 lbs. max (TBD)
13	In/Out RF Connectors	SMA Female
14	Interface Connector	DB-9 Female
15	Grounding	Chassis
16	Cooling	Adequate Airflow Required
17		
<b>Environmental</b>		
18	Baseplate Temperature	-10° C to +70° C
19	Operating Altitude	Up to 10,000' Above Sea Level
20	Shock and Vibration	Normal Truck Transport



### FEATURES:

- \* Heatsink Included (Not Shown)
- \* General Failure Alarm:  
Over Temperature  
High VSWR