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## Solid State Broadband High Power RF Amplifier

The 5303084-002 is a 50 Watt broadband amplifier that covers the 800-2000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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 5303084-002 comes with an extended multiyear warranty backed by Ophir RF's commitment to total customer satisfaction.



## MODEL 5303084-002

**800-2000 MHz  
50 WATTS  
POWER RF AMPLIFIER**

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	800-2000 MHz
2	Saturated Output Power	50 Watts minimum
3	Power at P1dB	40 Watts minimum
4	Small Signal Gain	+48 dB min
5	Power Gain Flatness	± 2 dB max
6	Input VSWR	2:1 max
7	Harmonics	-20dBc typical @ 40 watts
8	Spurious Signals	< -60 dBc typical @ 40 watts
9	DC Consumption	220 Watts at full rated power maximum
10	DC Input Voltage	28VDC Nominal
11	RF Input Signal Format	CW/AM/FM/PM/Pulse
12	Class of Operation	A/AB
<b>Mechanical</b>		
13	Dimensions	6.0" x 5.0" x 1.1"
14	Weight	1.5 lb. max
15	Connectors	SMA female for RF input/output
16	Grounding	Chassis
17	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
18	Average Baseplate Temperature	0° C to +55° C
19	Operating Humidity	95% Non-condensing
20	Operating Altitude	Up to 10,000' Above Sea Level
21	Shock and Vibration	MIL-STD 810 (Method 516.6/ Method 514.6)

Specifications subject to change without notice

## 5303084-002 SPECIAL FEATURES AND OPTIONS

- ◊ - Optional heatsink and fans are available
- ◊ - Amplifier enable/disable pin standard
- ◊ - Amplifier blanking pin standard
- ◊ - Current monitoring standard
- ◊ - Temperature monitoring standard
- ◊ - Specially tuned to provide linear performance for multitone applications!



Made  
in the  
U.S.A.



Certified to  
ISO 9001:2008

