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**MODEL 5303024-001**

**2.0 - 4.0 GHz**  
**8 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303024-001 is an 8 Watt broadband amplifier that covers the 2.0 – 4.0 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 5303024-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	2.0 – 4.0 GHz
2	Saturated Output Power	8 Watts typical
3	Power Output @ 1dB Comp.	6 Watts min
4	Power Gain	24dB to 27dB across the band
5	IP <sub>3</sub>	+48 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	> -60 dBc typical
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	3 Amps max
11	DC Input	11.5 VDC
12	RF Input with no damage	+20 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	AB
<b>Mechanical</b>		
15	Dimensions	6.3" x 2.3" x 0.9"
16	Weight	2 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
20	Baseplate Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



Approved By: \_\_\_\_\_ Date: \_\_\_\_\_