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**MODEL 5304006-002**

**0.5-3.5 GHz**  
**15 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5304006-002 is a 15 Watt broadband amplifier that covers the 0.5-3.5 GHz frequency range. This small and lightweight amplifier utilizes Class A 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 5304006-002 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	0.5-3.5 GHz
2	Saturated Output Power	15 Watts min
3	Small Signal Gain	+48 dB min
4	Power Gain Flatness	± 2.0 dB max
5	IP <sub>3</sub>	-46dBc typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical
8	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4.5 Amps Maximum
12	DC Input	28 VDC nominal
13	RF Input	+0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A
<b>Mechanical</b>		
16	Dimensions	5.0" x 7.0" x 1.1"
17	Weight	2 lb. max
18	Connectors	SMA female RF In / Out DB9 DC and Control
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
21	Baseplate Temperature	-20° C to +55° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice



#### D-SUB 9 PIN OUT

- 1 N/C
- 2 N/C
- 3 Temp Sense (0 to 1.0VDC)
- 4 N/C
- 5 S/D (TTL, Active Low)
- 6 +28VDC
- 7 +28VDC
- 8 GND
- 9 GND