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MODEL 5304036

4000-6000 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304036 is a 25 Watt broadband amplifier that covers the 4000-6000 MHz frequency range. This small and lightweight amplifier utilizes Class A linear power devices that provide an excellent 3rd 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_{RF} amplifiers, the 5304036 comes with an extended multiyear warranty.

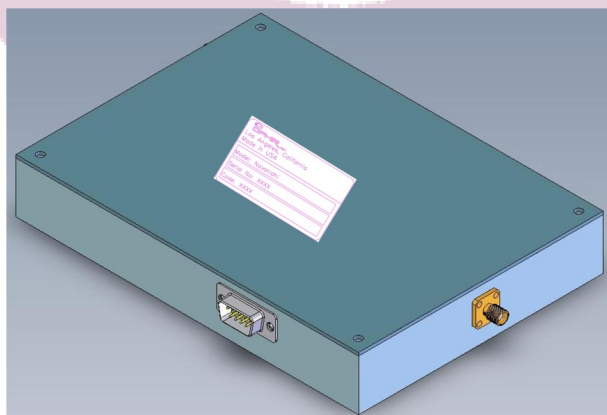
	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	4000-6000 MHz
2	Saturated Output Power	25 Watts Min
3	Small Signal Gain	45dB Min
4	Gain Flatness	+/- 2.0dB max
5	IP ₃	+51dBm
6	Input Output VSWR	2:1 Nominal
7	Harmonics	-20 dBc typical
8	Spurious Signals	< 60 dBc typical
9	Noise Figure	<10.0 dB
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	4.0A Design Goal 5.0A Max
12	DC Input	24 VDC nominal
13	RF Input	+0dBm Nominal for rated power
<u>Mechanical</u>		
14	Dimensions	7.0" x 5.0" x 1.1"
15	Weight	2 lb. max
16	Connectors	SMA female RF In / Out DB9 DC and Control
17	Grounding	Chassis
18	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
19	Baseplate Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	MIL-STD-810F (Method 514 II)

Specifications subject to change without notice.

DSUB 9 PIN OUT

- 1 NC
- 2 I Sense (0 to 2.5VDC)
- 3 Temp Sense (0 to 1.0VDC)
- 4 NC
- 5 S/D (TTL, Active Low)
- 6 +24VDC
- 7 +24VDC
- 8 GND
- 9 GND

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Approved By: _____ Date: _____