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MODEL 5303031-003

**500 - 1000 MHz
 100 WATTS
 WITH BLANKING
 LINEAR POWER RF AMPLIFIER**

Solid State Broadband High Power RF Amplifier

The 5303031-003 is a 100 Watt broadband amplifier that covers the 500 – 1000 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB 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 5303031-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	100 Watts typical
3	Small Signal Gain	+10 dB min
4	Gain Flatness	± 1.5 dB max
5	IP ₃	+54 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 60 Watts
8	Spurious Signals	> -60 dBc typical @ 60 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	10 Amps max
11	DC Input	28 VDC nominal
12	RF Input	+40 dBm
13	Class of Operation	AB
14	Blanking Speed (CMOS TTL High = Enable TTL Low= Blanked)	Rise / Fall 100 uSec
Mechanical		
16	Dimensions	6.7" x 4.1" x 1.1"
17	Weight	3 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



Approved By: _____ Date: _____