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**MODEL 5303033**  
**500 - 1000 MHz**  
**200 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303033 is a 200 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 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 5303033 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	500 – 1000 MHz
2	Saturated Output Power	200 Watts minimum
3	Power Output @ 1dB Comp.	120 Watts minimum
4	Small Signal Gain	+18 dB min
5	Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+55 dBm typical
7	Input VSWR	2:1 typical 2.8:1 maximum
8	Harmonics	-20 dBc typical @ 120 Watts
9	Spurious Signals	< -60 dBc typical @ 120 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	25 Amps max
12	DC Input	28 Vdc nominal
13	RF Input	+42 dBm nominal for rated power <b>+44 dBm maximum</b>
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	7.9" x 6" x 1.1"
17	Weight	4 Lbs.
18	Connectors	RF input: SMA female RF Output: N-type female DC connections: Feed-thru
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b>Environmental</b>		
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.



**FEATURES:**

Shutdown (Open Collector):  
 Open = on; GND = Off

**NOTE: Do not apply any voltage to this Pin.**