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MODEL 5303133-001
20 - 1000 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303133-001 is a 100 Watt broadband amplifier that covers the 20 – 1000 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 5303133-001 comes with an extended multiyear warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power*	100 Watts typical
3	Small Signal Gain	+50 dB min
4	Gain Flatness	± 2.5 dB max
5	IP ₃	+54 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	VSWR Tolerance	Will withstand 15:1 VSWR Conditions
12	DC Input Current	15 Amps max
13	DC Input	24-32 VDC
14	RF Input	+0 dBm nominal for rated power
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A
Mechanical		
17	Dimensions	6.7" x 4.1" x 1.1"
18	Weight	5 Lbs.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

* = 32VDC input

