

5300 Beethoven Street, Los Angeles, CA 90066 TEL: (310)306-5556 • FAX: (310)821-7413 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5303133-001

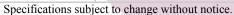
20 - 1000 MHz 100 WATTS LINEAR POWER RF AMPLIFIER

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/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 this amplifier components. achieves high efficiency with proven operation reliability. Like all OPHIR_{RF} amplifiers, the 5303133-001 comes with an extended multiyear warranty.

	<u>Parameter</u>	Specification @ 25° C	
<u>Electrical</u>			
1	Frequency Range	20 – 1000 MHz	
2	Saturated Output Power*	100 Watts typical	
3	P1dB Output Power*	40 Watts Minimum	
4	Small Signal Gain	+50 dB min	
5	Gain Flatness	<u>+</u> 2.5 dB max	
6	IP ₃	+54 dBm typical	
7	Input VSWR	2:1 max	
8	Harmonics	-20 dBc typical	
9	Spurious Signals	< -60 dBc typical	
10	Input/Output Impedance	50 Ohms nominal	
11	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/AB	
<u>Mechanical</u>			
17	Dimensions	9.5" x 6.0" x 1.4"	
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



AVAILABLE OPTIONS

- ♦ Add Heatsink Only
- ♦ Land Heatsink and Fans
- ♦ Externally mounted DC-DC Converter
- ♦ Many other options available. Consult factory!

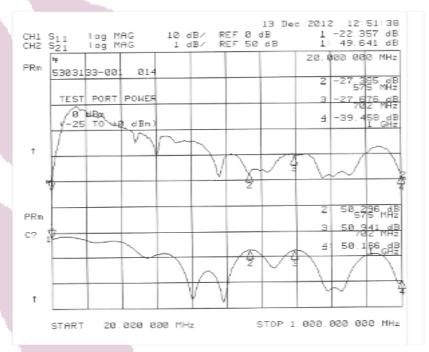
0813 Approved By: ______ Date:



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SAMPLE PSAT TEST PLOT

- ♦ Input Level to RFPA is 0dBm
- ♦ Output Gain at 0dBm is 50dBm
- Output Power at PSAT is 100 Watts minimum
- ♦ Lower end of frequency band is 150 Watts





12/12

Approved By:	Date:	