

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 5303132**

## 500-2500 MHz 100 WATTS LINEAR POWER RF AMPLIFIER

## Solid State Broadband High Power RF Amplifier

The 5303132 is a 100 Watt broadband amplifier that covers the 500-2500 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> 5303132 amplifiers, the extended comes with an multiyear warranty.



Shown with Optional Heatsink and Fans

	<u>Parameter</u>	Specification @ 25° C
Electrical		
1	Frequency Range	500-2500 MHz
2	Output Power @ Psat	100 Watts typical 90 Watts minimum
3	Small Signal Gain	+45 dB minimum
4	Gain Flatness @ PSAT	+/-2.0 dB maximum +/-1.5 dB typical
	Input VSWR	2:1 max
6	Harmonics	-20 dBc typical -15 dBc maximum
7	Spurious Signals	-60 dBc maximum -70 dB typical
8	Input/Output Impedance	50 Ohms nominal
10	Efficiency (PAE)	25% minimum 30% typical
11	Switching Time (Blanking)	5µs maximum
	DC Input	30Vdc nominal
12	RF Input	+10 dBm max +7 dBm nominal full rated power
13	DC Power Consumption	500 W max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<u>Mechanical</u>		
16	Dimensions	Length 180mm Width 105mm Height <30mm
17	Weight	< 1.0Kg
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Cardinananantal		
<u>Environmental</u>		
21	Baseplate Temperature	-20° C to +85° C Shutdown over 85°C Recovery @ 60°C
	Baseplate Temperature  Operating Humidity	Shutdown over 85°C
21		Shutdown over 85°C Recovery @ 60°C

## **DC and Interface Connector Pin Description**

♦ Pin 1 VDD +30VDC	♦ Pin 8 N/C
♦ Pin 2 VDD +30VDC	♦ Pin 9 VDD +30VDC
♦ Pin 3 Ground	♦ Pin 10 Ground

 ◊ Pin 3 Ground
 ◊ Pin 10 Ground

 ◊ Pin 4 N/C
 ◊ Pin 11 Ground

♦ Pin 5 Current Monitor
♦ Pin 12 Blanking (On/Off)
On = 3-5 Vdc; Off = <0.5 Vdc</p>

♦ Pin 6 N/C ♦ Pin 13 Ground ♦ Pin 7 N/C

05/15 Approved By: \_\_\_\_\_\_\_ Date: \_\_\_\_\_