



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 5303112

1000 - 2500 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303112 is a 100 Watt broadband amplifier that covers the 1 – 2.5 GHz 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.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1000 – 2500 MHz
2	Output power @ Psat	100 Watts min
3	Output power @ P1dB	60 Watts min
4	Small Signal Gain	+53 dB min
5	Small Signal Gain Flatness	+/-2 dB max
6	Input /Output VSWR	2:1 max
7	Harmonics	-20 dBc max
8	Spurious Signals	-60 dBc max
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Power	13A max
11	DC Input	40 VDC
12	RF Input Power	0 dBm nominal
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	Interface	D-sub
16	Two tone IMD (10W each)	-30dBc typ.

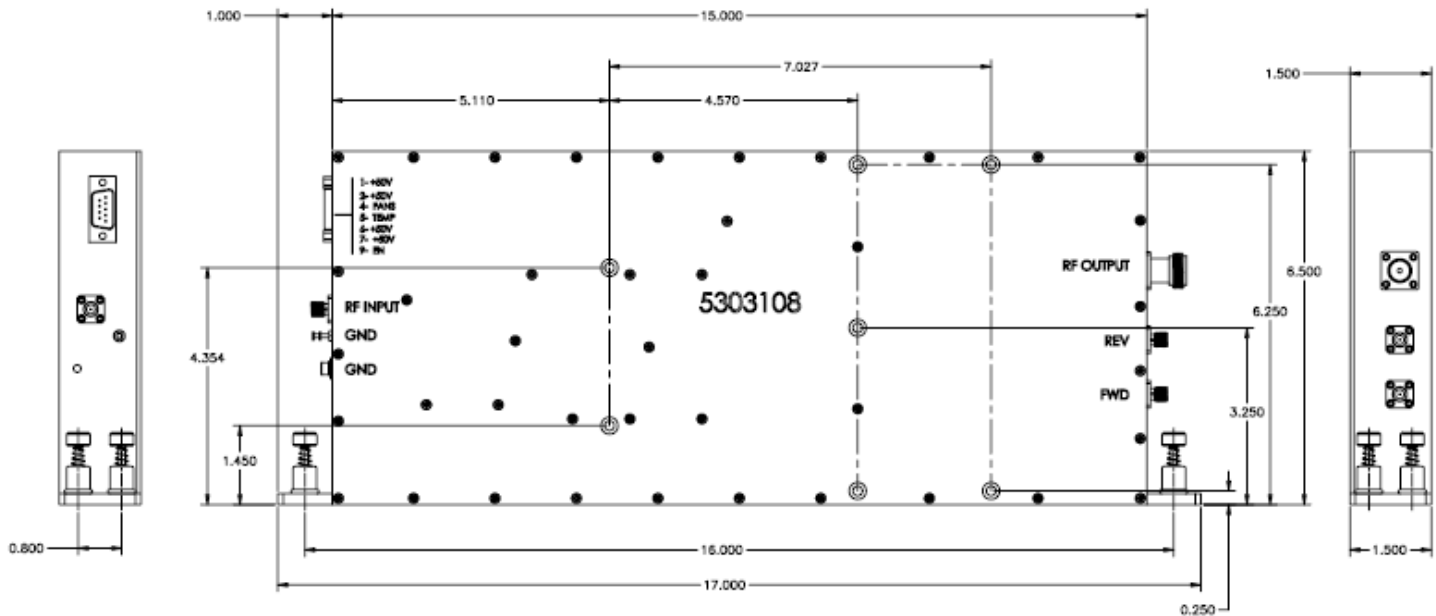
<u>Mechanical</u>		
17	Dimensions	17" x 6.5" x 1"
18	Weight	10 lb. max
19	Connectors	Type-N for RF Filtered D-sub for control and indications
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-20° C to +71° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport



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 5303112

1000 - 2500 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER



Pin	Description
1	+40 V
2	+40 V
3	NC
4	NC
5	Temp Indication
6	+40 V
7	+40 V
8	NC
9	Enable