



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 5303132-027

700-2700 MHz
100 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303132-027 is a 100 Watt broadband amplifier that covers the 700-2700 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 components, this amplifier achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5303132-027 comes with an extended multiyear warranty.

DC and Interface Connector Pin Description

- ◇ Pin 1 VDD +30VDC
- ◇ Pin 2 VDD +30VDC
- ◇ Pin 3 Ground
- ◇ Pin 4 N/C
- ◇ Pin 5 Current Monitor
- ◇ Pin 6 N/C
- ◇ Pin 7 N/C
- ◇ Pin 8 N/C
- ◇ Pin 9 VDD +30VDC
- ◇ Pin 10 Ground
- ◇ Pin 11 Ground
- ◇ Pin 12 Blanking (On/Off)
 On = TTL High
 Off = TTL Low
- ◇ Pin 13 Ground

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	700-2700 MHz
2	Output Power @ PSAT	90 Watts minimum 100 Watts typical
3	Small Signal Gain	+45 dB minimum
4	Gain Flatness @ PSAT	+/-2.0 dB maximum +/-1.5 dB typical
5	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 35% typical
11	Switching Time (Blanking)	5uSec maximum
12	DC Input	30VDC nominal
13	RF Input	+10 dBm max
14	DC Power Consumption	500W max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	Length 180mm Width 105mm Height <30mm
18	Weight	< 1.0Kg
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
22	Baseplate Temperature	-20° C to +85° C Shutdown over 85° C Recovery @ 60° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	MIL-STD-810F (Method 516.5)

Specifications subject to change without notice