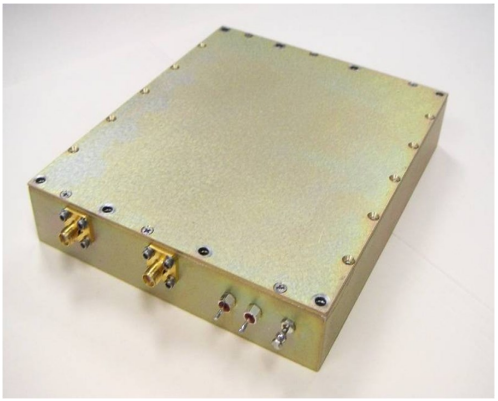
5300 Beethoven Street, Los Angeles, CA 90066
TEL: (310)306-5556 • FAX: (310)821-7413
WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

5303096-008
0.8 - 1.0 GHz, 125 Watts
1.8 - 2.0 GHz, 100 Watts
Dual Band Power RF Amplifier

Solid State Broadband High Power RF Amplifier

The 5303096-008 is a 125/100 Watt dual band amplifier that covers 0.8 – 1.0 and 1.8 – 2.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent efficiency, 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



	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8 – 1.0 GHz 1.8 – 2.0 GHz
2	Saturated Output Power	125 Watts min @ 0.8-1.0GHz 100 Watts min @ 1.8-2.0GHz
4	Small Signal Gain	+50 dB min inside bands
5	Power Gain Flatness	± 1.0 dB max inside bands
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Remote shut down	5V to Enable 0V to Disable
11	Blanking	TTL “High” is Enable TTL “Low” is blanked
12	Blanking speed	5uS max. On/Off, Off/On
13	DC Consumption	320W maximum
14	DC Input Voltage	18 to 36V
15	RF Input drive required For a rated power	0dBm minimum
16	RF Input Signal Format	CW/AM/FM/PM/Pulse
17	Class of Operation	A/AB
Mechanical		
18	Dimensions	6.0” x 5.0” x 1.0”
19	Weight	3 lb. max
20	Connectors	SMA female for RF Feed Thru for DC
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Base plate Temperature	-20° C to +70° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000’ Above Sea Level
26	Shock and Vibration	MIL-STD-810F

Specifications subject to change without notice

Approved by:_____ Date: _____

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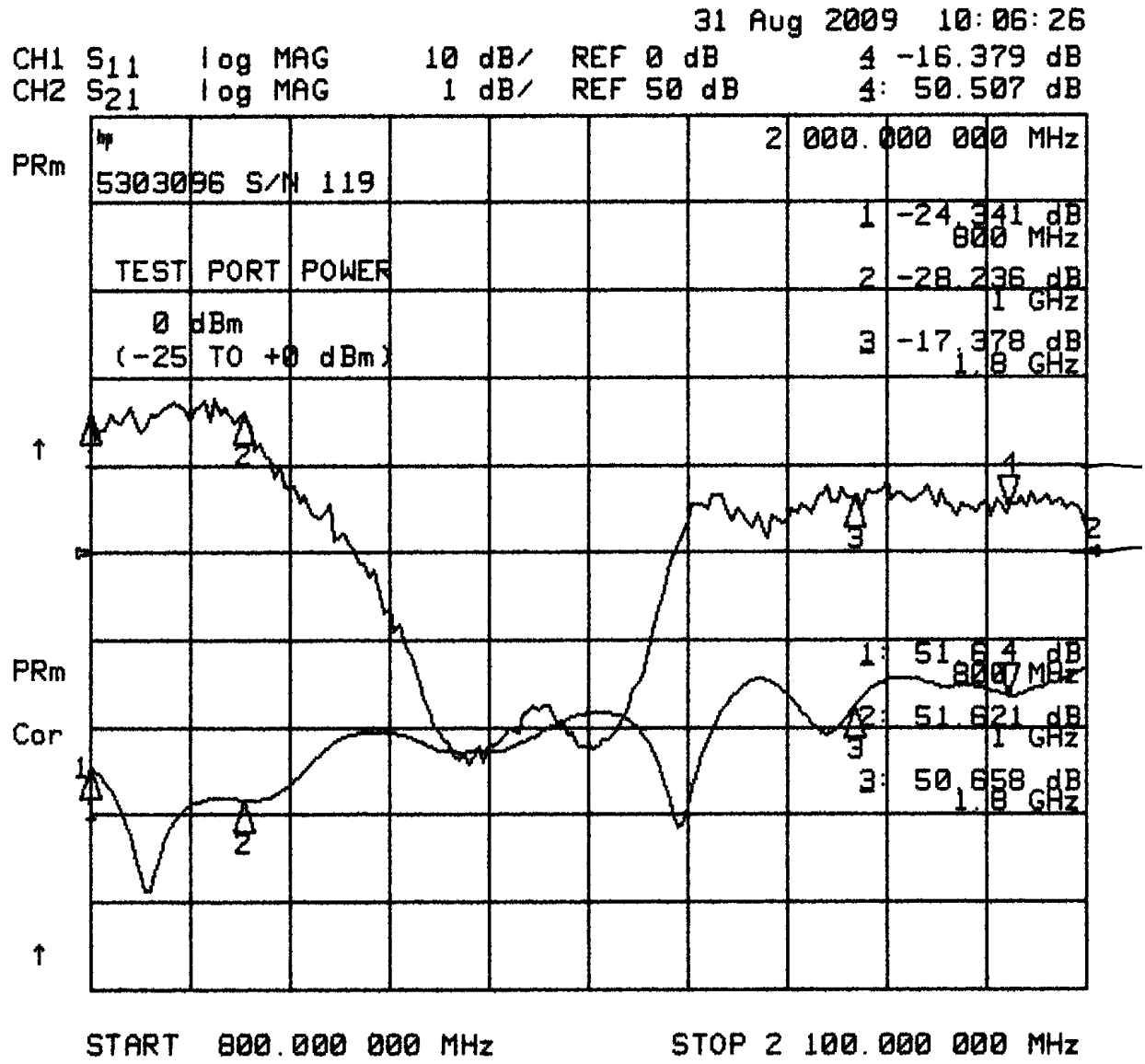

P-sat Test Data, Pin 0 dBm