



5300 Beethoven Street, Los Angeles, CA 90066
 TEL: (310)306-5556 • FAX: (310)577-9887
 WEB: www.ophirrf.com • E-MAIL: sales@ophirrf.com

MODEL 5303056-1250
100 - 250 MHz
20 WATTS (P-1dB)
LINEAR POWER RF AMPLIFIER

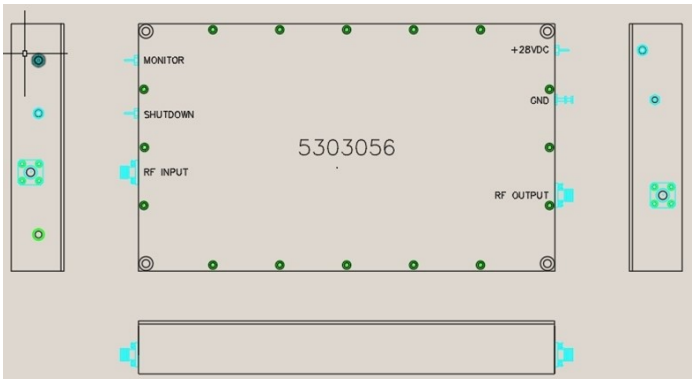
Solid State Broadband High Power RF Amplifier

The 5303056-1250 is a 20 Watt (P-1dB) broadband amplifier that covers the 100 – 250 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 5303056-1250 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	100 – 250 MHz
2	Power Output @ Psat	75 Watts Typical
3	Power Output @ 1dB Comp.	20 Watts min
4	Small Signal Gain	+15 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+53 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 20 Watts
9	Spurious Signals	< -60 dBc typical @ 20 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	8 Amps max
12	DC Input	24-28 Vdc nominal
13	RF Input	+33 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	8.4" x 5.0" x 1.1"
17	Weight	4 lbs.
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport



Specifications subject to change without notice.

MODULE FEATURES:

Open Collector Shutdown (Feed-Thru)

Open = Normal Operation/Online

GND = Shutdown

DO NOT APPLY ANY VOLTAGE TO THIS PIN.

Current Monitor (Feed-Thru):

Vdc output.