



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 5303141

9.3 - 9.99 GHz

5 WATTS

LINEAR POWER RF AMPLIFIER

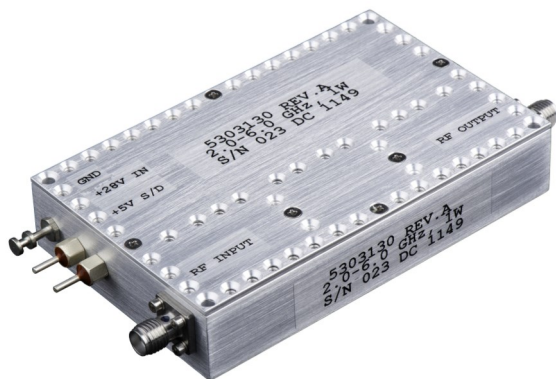
Solid State Band-specific High Power RF Amplifier

The 5303141 is a 5-Watt broadband amplifier that covers the 9.3 - 9.99 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	9.3 – 9.99 GHz
2	Saturated Output Power	5 Watts typical
3	P-1dB Output Power	4 Watts minimum
4	Small Signal Gain	+ 40 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+44 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 4 Watts
9	Spurious Signals	< -60 dBc typical @ 4 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5.0 Amps max
12	DC Input	12 Vdc nominal
13	RF Input for rated power	0 dBm nominal
14	Maximum RF input	+10 dBm max
15	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions	2.5" x 1.75" x 0.5"
18	Weight	2 lbs.
19	RF Connectors	SMA Female
20	Grounding	Chassis
21	Cooling	Heatsink and adequate airflow
<u>Environmental</u>		
22	Operating Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal truck transportation

Specifications subject to change without notice



Similar RF module shown