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MODEL 5310300
243 - 270 MHz
25 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5310300 is a 25 Watt RF amplifier that covers the 243 – 270MHz 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 5310300 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	243 – 270 MHz
2	Saturated Output Power	25 Watts min
3	Power Output @ 1dB Comp.	8 Watts min
4	Small Signal Gain	+44 dB min
5	Gain Flatness	± 1.0 dB max
6	IP ₃	+40 dBm min
7	TX Rise Time	< 100 us
8	TX Fall Time	< 100 us
9	Noise Figure	< 10 dB typical
10	Input VSWR	2:1 max
11	Harmonics	-20 dBc typical @ 15 Watts
12	Spurious Signals	< -60 dBc typical @ 15 Watts
13	Input/Output Impedance	50 Ohms nominal
14	DC Input Current	3.4 Amps max at 25W output
15	DC Input	28 VDC nominal
16	RF Input	0 dBm max
17	RF Input Signal Format	CW/AM/FM/PM/Pulse
18	Class of Operation	AB
Mechanical		
19	Dimensions	6" x 3" x 1.1"
20	Weight	2 lb. max
21	Connectors	SMA female
22	Grounding	Chassis
23	Cooling	Adequate Heatsink Required
Environmental		
24	Baseplate Temperature	0° C to +50° C
25	Operating Humidity	95% Non-condensing
26	Operating Altitude	Up to 10,000' Above Sea Level
27	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

