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**MODEL 5300687**

**1.0-3.0 GHz**  
**15 WATTS**  
**LINEAR POWER RF AMPLIFIER**

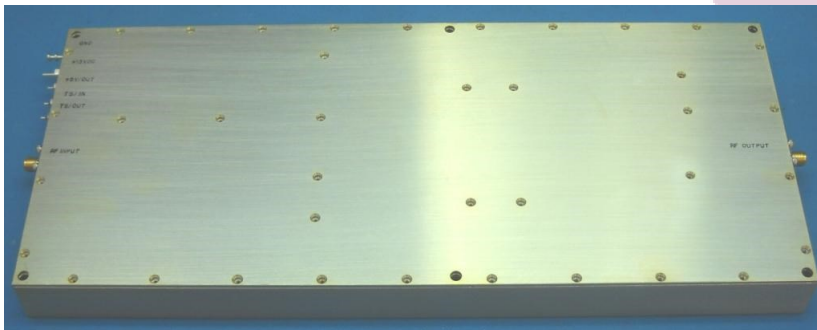
**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5300687 is a 15 Watt broadband amplifier that covers the 1.0-3.0 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 5300687 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	1.0-3.0 GHz
2	Saturated Output Power	15 Watts typical
	P1dB Output Power	11 watts min
4	Small Signal Gain	+14 dB min
5	Gain Flatness	± 2.0 dB max
6	IP <sub>3</sub>	+49 dBm typical
7	Input / Output VSWR	2:1 max
8	Harmonics	-20 dBc min @ 11 Watts
9	Spurious Signals	> -60 dBc max @ 11 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	7.5 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+32 dBm nominal for rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions	12.5 L x 5.1" W x 1.1" H
17	Weight	4 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Baseplate 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.



**Application Note**

- ◇ - This Amplifier will require a separate driver for full rated power operation. Recommend the Ophir RF Model 5303075