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**MODEL 5300690**  
**0.7 - 4.2 GHz**  
**1.5 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5300690 is a 1.5 Watt broadband amplifier that covers the 0.7 – 4.2 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 5300690 comes with an extended multiyear warranty.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	0.7 – 4.2 GHz
2	Saturated Output Power	1.5 Watts typical
3	Power Output @ 1dB Comp.	1.2 Watts min
4	Small Signal Gain	+31 dB min
5	Gain Flatness	0.7 – 1 GHz $\pm$ 2.5 dB max 1 – 4.2 GHz $\pm$ 2 dB max
6	IP <sub>3</sub>	+41 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 1.2 Watts
9	Spurious Signals	< -60 dBc typical @ 1.2 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	800 mA max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions	3" x 2.2" x 0.6"
17	Weight	0.5 lb.
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
<b><u>Environmental</u></b>		
21	Baseplate Temperature	0° C to +50C
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.

