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**MODEL 5303081**  
**1.0 - 2.5 GHz**  
**10 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5303081 is a 10 Watt broadband amplifier that covers the 1.0 – 2.5 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 5303081 comes with an extended

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	1.0 – 2.5 GHz
2	Saturated Output Power	10 Watts typical
3	Power Output @ 1dB Comp.	8 Watts min
4	Small Signal Gain	+40 dB min
5	Gain Flatness	± 1.5 dB max
6	IP <sub>3</sub>	+49 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 8 Watts
9	Spurious Signals	< -60 dBc typical @ 8 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
<b><u>Mechanical</u></b>		
16	Dimensions	6.8" x 2.7" x 1.0"
17	Weight	2 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.



Approved By: \_\_\_\_\_ Date: \_\_\_\_\_