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MODEL 5303105
2.0-6.0 GHz
5 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303105 is a 5 Watt broadband amplifier that covers the 2.0-6.0 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. Like all OPHIR_{RF} amplifiers, the 5303105 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	2.0-6.0 GHz
2	Saturated Output Power	5 Watts typical
3	Small Signal Gain	+38 dB min
4	Gain Flatness	± 3.0 dB max
5	IP ₃	+40 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 2 Watts
8	Spurious Signals	> -60 dBc typical @ 2 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	4 Amps max
11	DC Input	12 VDC nominal
12	RF Input	+0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<u>Mechanical</u>		
15	Dimensions	5.8" x 2.5" x 1.0"
16	Weight	2 lb. max
17	Connectors	SMA female
18	Grounding	Chassis
19	Cooling	Adequate Heatsink Required
<u>Environmental</u>		
20	Baseplate Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice

