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MODEL 5303075-102

1.0 – 2.0 GHz
2 WATTS P-1dB
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303075-102 is a 2 Watt P-1dB broadband amplifier that covers the 1.0 – 2.0 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 5303075-102 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.0 – 2.0 GHz
2	Power Output @ 1dB Comp.	2 Watts min
3	Small Signal Gain	+31 dB min
4	Gain Flatness	± 2.0 dB max
5	IP ₃	+41 dBm typical
6	Input VSWR	2.2:1 max
7	Harmonics	-20 dBc typical @ 2 Watt
8	Spurious Signals	< -60 dBc typical @ 2 Watt
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	1A max
11	DC Input	12 - 13 VDC nominal
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
Mechanical		
16	Dimensions	3.0" x 2.2" x 0.6"
17	Weight	0.5 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
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: _____