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MODEL 5303117-001

1700-5900 MHz

5 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303117-001 is a 5 Watt broadband amplifier that covers the 1700-5900 MHz 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 5303117-001 comes with an extended multiyear warranty.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1700-5900 MHz
2	Saturated Output Power	5 Watts Min
3	Power at P1dB Compression	2 Watts Min
3	Small Signal Gain	+40 dB min
4	Gain Flatness	± 3.5 dB max
5	IP ₃	+46 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 5 Watts
8	Spurious Signals	< -60 dBc typical @ 5 Watts
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	8 Amps max
11	DC Input	28 VDC nominal
12	RF Input	+0 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
15	On/Off	On = 5V Off = 0V
Mechanical		
16	Dimensions	5.0" x 2.0" x 1.0"
17	Weight	2 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

