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MODEL 5303012A-003

1.47 - 1.67 GHz

12 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303012A-003 is a 12 Watt broadband amplifier that covers the 1.47 – 1.67 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 5303012A-003 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8 – 2.0 GHz
3	Power Output @ 1dB Comp.	12 Watts min
4	Small Signal Gain	+41 dB min
5	Gain Flatness	± 1.5 dB max
6	Blanking	TTL
	Blanking speed	5uS off to On 2uS On to Off
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 12 Watts
9	Spurious Signals	> -60 dBc typical @ 12 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5 Amps max 0.8 Amp max in blanked
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
Mechanical		
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
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: _____