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MODEL 5303021A

500 - 1000 MHz 20 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5303021A is a 20 Watt broadband amplifier that covers the 500 – 1000 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 5303021A comes with an extended multiyear warranty.

	<u>Parameter</u>	Specification @ 25° C		
Electrical				
1	Frequency Range	500 – 1000 MHz		
2	Saturated Output Power	20 Watts typical		
3	Power Output @ 1dB Comp.	13 Watts min		
4	Small Signal Gain	+44 dB min		
5	Gain Flatness	<u>+</u> 1.5 dB max		
6	IP ₃	+47 dBm typical		
7	Input VSWR	2:1 max		
8	Harmonics	-20 dBc typical @ 13 Watts		
9	Spurious Signals	> -60 dBc typical @ 13 Watts		
10	Input/Output Impedance	50 Ohms nominal		
11	DC Input Current	4 Amps max		
12	DC Input	28 VDC nominal		
13	RF Input	0 dBm		
14	RF Input Signal Format	CW/AM/FM/PM/Pulse		
15	Class of Operation	AB		
<u>Mechanical</u>		-		
16	Dimensions	6" x 3" x 1.1"		
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:	