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MODEL 5303012A-005
0.8 - 2.0 GHz
12 WATTS, With DC Blanking
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303012A-005 is a 12 Watt broadband amplifier that covers the 0.8 – 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. This module also has TTL Compatible DC Blanking with very fast on/off speeds

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-005 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	0.8 – 2.0 GHz
2	Saturated Output Power	12 Watts typical
3	Power Output @ 1dB Comp.	10 Watts min
4	Small Signal Gain	+41 dB min
5	Gain Flatness	± 1.5 dB max
6	IP ₃	+50 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 10 Watts
9	Spurious Signals	> -60 dBc typical @ 10 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	5 Amps max
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
16	TTL Blanking Rise/Fall time	50uSec / 50uSec
17	Blanking Polarity	TTL Compatible 'High' = On
Mechanical		
18	Dimensions	6.8" x 2.7" x 1.0"
19	Weight	2 lb. max
20	Connectors	SMA female
21	Grounding	Chassis
22	Cooling	Adequate Heatsink Required
Environmental		
23	Baseplate Temperature	0° C to +50° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport



Approved By: _____ Date: _____