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MODEL 5303006A-018
225-400 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5303006A-018 is a 50 Watt broadband amplifier that covers the 225-400 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 5303006A-018 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	225-400 MHz
2	Saturated Output Power	50 Watts typical
3	Power Output @ 1dB Comp.	30 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness	± 1.5 dB max
6	Group Delay	+/-0.2 nSec
7	IP ₃	+51 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 30 Watts
10	Spurious Signals	< -60 dBc typical @ 30 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	10 Amps max
13	DC Input	28 VDC nominal
14	RF Input	0 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
Mechanical		
17	Dimensions	6" x 3" x 1.1"
18	Weight	1 Lb.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
22	Baseplate Temperature	0° C to +50° C
23	Operating Humidity	95% Non-condensing
24	Operating Altitude	Up to 10,000' Above Sea Level
25	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.



-018 SPECIAL FEATURES		
◇	-	Specially tuned to provide maximum performance in the Navy UHF Band
◇	-	Excellent Group Delay at +/-0.2 Nanoseconds
◇	-	Ultra Linear Output Power