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MODEL 5304033

3.6-3.8 GHz

50 WATTS

LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5304033 is a 50 Watt narrowband amplifier that covers the 3.6-3.8 GHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear GaAs FET 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 5304033 comes with an extended multiyear warranty.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	3.6-3.8 GHz
2	Saturated Output Power	50 Watts Min
3	Power at P1dB Compression	40 Watts Min
3	Small Signal Gain	+50 dB min
4	Gain Flatness	± 1.0 dB max
5	IP ₃	+60dBm Min @ 12.5 Watts, Two Tones, 100KHz Spacing
6	Input VSWR	2:1 max
7	Harmonics	-40 dBc Min
8	Spurious Signals	< -60 dBc Min
9	Input/Output Impedance	50 Ohms nominal
10	DC Input Current	12 Amps max
11	DC Input	12 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	Blanking/Muting CMOS Compatible <5uSec	On = 5V Off = 0V
<u>Mechanical</u>		
16	Dimensions	7.5" x 4.0" x 0.8"
17	Weight	2 lb. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink or Cold plate Required
<u>Environmental</u>		
21	Baseplate Temperature	0° C to +85° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 20,000' Above Sea Level
24	Shock and Vibration	Mil-Std 810F (Method 516.4)

Similar RFPA Module

- Full VSWR Protection with internal Isolator (Standard Feature)
- Graceful Degradation at High Temperature
- Blanking less than 5 Microseconds
- Many options available for this RFPA

