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MODEL 5302034-011

1805-1990 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5302034-011 is a 50 Watt band-specific amplifier that covers the 1805-1990 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 5302034-011 comes with an extended warranty.

Specifications subject to change without notice.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1805-1990 MHz
2	Saturated Output Power	50 Watts Minimum
3	Power Output @ 1dB Comp.	40 Watts Minimum
4	Small Signal Gain	+47 dB min
5	Power Gain Flatness	± 0.5 dB max
6	IP ₃	+56 dBm typical
7	Input/Output VSWR	1.5:1 max
8	Harmonics	-20 dBc typical @ 40 Watts
9	Spurious Signals	< -60 dBc typical @ 40 Watts
10	Input/Output Impedance	50 Ohms nominal
11	DC Input Current	11 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
Mechanical		
16	Dimensions	6.55" x 4" x 1.1"
17	Weight	3 lbs. max
18	Connectors	SMA female
19	Grounding	Chassis
20	Cooling	Adequate Heatsink Required
Environmental		
21	Operating Temperature	-10° C to +60° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

CIRCUIT PROTECTIONS SPECIAL FEATURES

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ Reverse Polarity Protection
- ◇ High VSWR
- ◇ Shutdown Circuitry TTL or Open Collector <Customer Please Specify>
- ◇ Internal Isolator for Full VSWR Protection
- ◇ Expanded Temperature Range

OPTIONS

- ◇ Heatsink and Fans Available

