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MODEL 5802034-010

869-960 MHz
50 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Band-specific High Power RF Amplifier

The 5302034-010 is a 50 Watt band-specific amplifier that covers the 869-960 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 5302034-010 comes with an extended warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	869-960 MHz
2	Saturated Output Power	50 Watts Minimum
3	Power Output @ 1dB Comp.	40 Watts Minimum
4	Small Signal Gain	+47 dB min
5	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	10 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	8.0" x 4.0" x 3.0"
17	Weight	5 Lbs.
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

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ Reverse Polarity Protection
◊ High VSWR

SPECIAL FEATURES

◊ Shutdown Circuitry TTL or Open Collector <*Customer Please Specify*>
◊ Internal Isolator for Full VSWR Protection
◊ Expanded Temperature Range

OPTIONS

◊ Heatsink and Fans Available
*DC Input Current will be more with fans

Specifications subject to change without notice.

06/13 Approved By: _____ Date: _____