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MODEL 5802034
1.8 - 2.0 GHz
60 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Band-specific High
 Power RF Amplifier**

The 5802034 is a 60 Watt band-specific amplifier that covers the 1.8 – 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.

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 5802034 comes with an extended warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	1.8 – 2.0 GHz
2	Instantaneous Bandwidth	60 MHz min
3	Saturated Output Power	60 Watts typ. @ 60 MHz bandwidth 50 Watts typ. @ 1.8 to 2.0 GHz
4	Power Output @ 1dB Comp.	50 Watts min @ 60 MHz bandwidth 30 Watts @ 1.8 to 2.0 GHz
5	Small Signal Gain	+49 dB min
6	Gain Flatness	± 1.0 dB max @ 60 MHz band ± 1.5 dB max @ 1.8 to 2.0 GHz
7	IP ₃	+57 dBm typical
8	Input VSWR	2:1 max
9	Harmonics	-20 dBc typical @ 50 Watts
10	Spurious Signals	< -60 dBc typical @ 50 Watts
11	Input/Output Impedance	50 Ohms nominal
12	DC Input Current	13.5 Amps max
13	DC Input	13 VDC nominal
14	RF Input	+10 dBm max
15	RF Input Signal Format	CW/AM/FM/PM/Pulse
16	Class of Operation	A/AB
<u>Mechanical</u>		
17	Dimensions (w/Heatsink)	8.7" x 5.2" x 3.5"
18	Weight (w/Heatsink)	5 Lbs.
19	Connectors	SMA female
20	Grounding	Chassis
21	Cooling	Adequate Airflow Required
<u>Environmental</u>		
22	Operating 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.



FEATURES:
 Heatsink and Fans Included