OPHIR RF

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MODEL 5302034-020

1.88 - 1.90 GHz
60 WATTS
LINEAR POWER RF AMPLIFIER

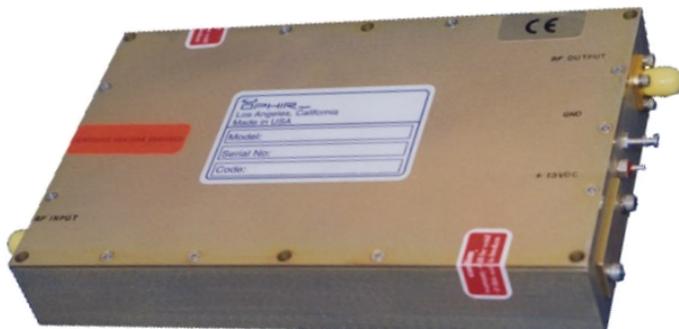### Solid State Band-specific High Power RF Amplifier

The 5302034-020 is a 60 Watt band-specific amplifier that covers the 1.88 – 1.90 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 5302034-020 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1.88 – 1.90 GHz
2	Saturated Output Power	60 Watts typ.
3	Power Output @ 1dB Comp.	50 Watts min
4	Small Signal Gain	+48 dB min
5	Gain Flatness	± 1.0 dB max
6	IP$_3$	+57 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 50 Watts
9	Spurious Signals	> -60 dBc typical @ 50 Watts
10	Input/output Impedance	50 Ohms nominal
11	DC Input Current	10 Amps max
12	DC Input	13 VDC nominal
13	RF Input	+25 dBm max (With external 20dB Attenuator)
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
16	RF Input Attenuator (SMA Connector, External)	20dB, 1W Power Rating
Mechanical		
17	Dimensions	6.55" x 4" x 1.1"
18	Weight	3 lb. max
19	Connectors	SMA female (Via Attenuator on Input)
20	Grounding	Chassis
21	Cooling	Adequate Heatsink Required
Environmental		
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.

Output Protection:
Can operate into a full Open or Short, without damage, due to the use of an Internal Circulator and Load.

Shutdown:
+5V = Off
Open or N/C = On

Approved By: _____ Date: _____