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MODEL 4040-001

**1215 - 1400 MHz
 200 WATTS
 LINEAR POWER RF AMPLIFIER**

Solid State Band-specific High Power RF Amplifier

The 4040-001 is a 200 Watt band-specific amplifier that covers the 1215 – 1400 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 4040-001 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	1215 – 1400 MHz
2	Saturated Output Power	200 Watts typical
3	Power Output @ 1dB Comp.	150 Watts min
4	Small Signal Gain	+54 dB min
5	Small Signal Gain Flatness	± 0.75 dB max
6	IP ₃	+62 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 150 Watts
9	Spurious Signals	< -60 typical dBc @ 150 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1200 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	10 dBm max
14	RF Input Signal Format	Pulse (see below)
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 7" x 20"
17	Weight	65 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT PROTECTIONS

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

Pulse Specifications

- 100 uS pulse every 1992 uS - ~ 5% duty
- 13 uS pulse every 1337 uS - ~1% duty

