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## MODEL 4068

**2000-2060 MHz**  
**500 WATTS P1dB**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 4068 is a 500 Watt broadband amplifier that covers the 2000-2060 MHz frequency range. This amplifier utilizes Class A/AB linear power devices that provide an excellent 3<sup>rd</sup> 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<sub>RF</sub> amplifiers, the 4068 comes with an extended multiyear warranty.

### CIRCUIT PROTECTIONS

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

### CIRCUIT CONTROL

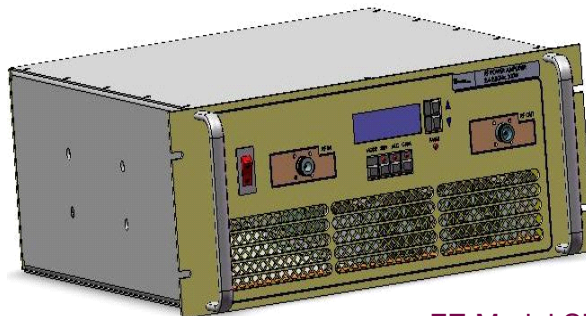
- ◇ Standby (amplifier disable)
- ◇ Gain/power setting with 25dB range
- ◇ VSWR protection Reset
- ◇ ALC On/ Off

### CIRCUIT INDICATIONS

- ◇ Forward Power
- ◇ Reflected power
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	2.00-2.06 GHz
2	Power Output @ 1dB Comp.	500 Watts minimum
3	Small Signal Gain	+47 dB nominal
4	Gain Flatness across any 5MHz section	0.1dB
5	IP <sub>3</sub>	+67 dBm typical
6	Input VSWR	1.5:1 max
7	Output VSWR	1.5:1 max
8	Harmonics	-20 dBc
9	Spurious Signals	< -60 dBc
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	3000 Watts max
12	AC Input	180 – 240 VAC, single phase
13	RF Input	+10 dBm for rated power
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
16		
<b>Mechanical</b>		
17	Dimensions	19" x 10.5" x 26" (6U)
18	Weight	130 lb. max
19	Connectors	Type-N
20	Grounding	Chassis
21	Cooling	Internal Forced Air
<b>Environmental</b>		
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.



FE Model Shown

### ORDERING MODELS

- ◇ RE - Rear Panel Connectors and Control Option with Ethernet, IEEE-488, and RS232
- ◇ FE - Front Panel Connectors and Control Option with Ethernet, IEEE-488, and RS232