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MODEL 5024R-001

425 MHz 500 WATTS LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5024R-001 is a 500 Watt RF Amplifier which operates at 425MHz. 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 high achieves efficiency with operation proven reliability. Like all OPHIR_{RF} amplifiers, the 5024R-001 comes with an extended multiyear warranty.

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	<u>Parameter</u>	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	425 MHz
2	Saturated Output Power	500 Watts typical
3	IP ₃	+66 dBm typical
4	Input VSWR	2:1 max
5	Input/Output Impedance 50 Ohms nominal	
6	AC Input Power 1500 Watts max	
7	AC Input	180 – 240 VAC, single phase
8	RF Input Signal Format	CW generated internally
9	Class of Operation	AB
10	Separate RF & DC Gating (the amplifier is turned on)	TTL "High" On, "Low" Off
11	Fast Gating	30dB Isolation
12	Slow Gating	60dB Isolation
13	Fast Gating Speed	20 uSec On/Off
14	Slow Gating Speed 200 uSec On/Off	
15		
<u>Mechanical</u>		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	Connector	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<u>Environmental</u>		
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

Approved By:	Date:	



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CIRCUIT PROTECTIONS

- ♦ Thermal Overload
- ♦ Over Current
- ◊ Over Voltage
- ♦ Open/short

CIRCUIT INDICATION

♦ Thermal fault

CONTROL FUNCTIONS

- ♦ DC Gating
- ♦ FAST RF Gating

TURN ON SYSTEM

- ♦ Apply "Low" on DC & FAST RF gating input
- ♦ Turn on AC switch
- ♦ Apply "High" on DC & FAST RF gating input

TURN OFF SYSTEM

- ♦ Apply "Low" on DC & FAST RF gating input
- ♦ Turn off AC switch

Approved By:	Date:
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