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**MODEL 5224**  
**2 - 4 GHz**  
**30 WATTS**  
**LINEAR POWER RF AMPLIFIER**

### Solid State Broadband High Power RF Amplifier

The 5224 is a 30 Watt broadband amplifier that covers the 2 – 4 GHz frequency range. This small and lightweight 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 5224 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	2 – 4 GHz
2	Saturated Output Power	30 Watts Min.
3	Small Signal Gain	+46 dB min
4	Power Flatness	± 1.0 dB max
5	IP <sub>3</sub>	+53 dBm typical
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc typical @ 30 Watts
8	Spurious Signals	< -60 dBc typical @ 30 Watts
9	Input/Output Impedance	50 Ohms nominal
10	AC Input Power	400 Watts max
11	AC Input	100 – 240 VAC, single phase
12	RF Input	+10 dBm max
13	RF Input Signal Format	CW/AM/FM/PM/Pulse
14	Class of Operation	A/AB
<b>Mechanical</b>		
15	Dimensions	19" x 3.5" x 18"
16	Weight	38 lb. max
17	Connectors	Type-N
18	Grounding	Chassis
19	Cooling	Internal Forced Air
<b>Environmental</b>		
20	Operating Temperature	0° C to +50° C
21	Operating Humidity	95% Non-condensing
22	Operating Altitude	Up to 10,000' Above Sea Level
23	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

### CIRCUIT PROTECTIONS

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

### ORDERING MODELS

- ◇ R - Rear Panel Connectors
- ◇ F - Front Panel Connectors
- ◇ RE - R model w/Control Option and Ethernet Interface
- ◇ FE - F model w/Control Option and Ethernet Interface



FE Model Shown