

**MODEL 5204**  
**2.0-4.0 GHz**  
**600 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High Power  
 RF Amplifier**

The 5204 is a 600 Watt broadband Solid State amplifier that covers the 2.0 GHz – 4.0 GHz frequency range. This small and lightweight amplifier utilizes Class A 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 5128 comes with an extended multiyear warranty.



	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	2.0-4.0 GHz
2	Saturated Output Power	600 Watts Minimum
3	Power Output @ 1dB Comp.	400 Watts Minimum
4	Small Signal Gain	+58 dB min
5	Small Signal Gain Flatness	± 2.5 dB max
6	IP <sub>3</sub>	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20dBc Minimum
9	Spurious Signals	< -60 dBc Minimum
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	16 KW max
12	AC Input	208-260 VAC 3Ø
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b><u>Mechanical</u></b>		
16	Dimensions	24" x 60" x 26"
17	Weight	400 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
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

**ORDERING MODELS**

- ◇ RE - R model with Ethernet, IEEE488 and RS232
- ◇ FE - F model with Ethernet, IEEE488 and RS232

**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

**RANGE OF AVAILABLE OPTIONS**

- ◇ RF Connectors can be changed
- ◇ Various Primary Power Options
- ◇ Various Racking and Installation Options
- ◇ Consult Factory for details

Specifications subject to change without notice