

**MODEL 5128**  
**80 - 1000 MHz**  
**800 WATTS**  
**LINEAR POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 5128 is a 500 Watt broadband amplifier that covers the 80 – 1000 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 5128 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<b>Electrical</b>		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	800 Watts Minimum
3	Power Output @ 1dB Comp.	500 Watts Minimum
4	Small Signal Gain	+59 dB min
5	Gain Flatness	± 2.5 dB max
6	IP <sub>3</sub>	+60 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical @ 500 Watts
9	Spurious Signals	< -60 dBc Minimum
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	8000 Watts max
12	AC Input	200 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<b>Mechanical</b>		
16	Dimensions	31" x 24" x 26"
17	Weight	190 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
<b>Environmental</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

Specifications subject to change without notice.



**CIRCUIT CONTROL**

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

**CIRCUIT PROTECTIONS**

- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage
- ◇ VSWR protection
- ◇ RF Output over drive

**ORDERING MODELS**

- ◇ RE - Rear panel RF connectors with IEEE-488, Ethernet and RS-232
- ◇ FE - Front panel RF connectors with IEEE-488, Ethernet and RS-232

**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