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MODEL 5128RE-900
80 - 1000 MHz
800 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5128RE-900 is a 800 Watt broadband amplifier that covers the 80 – 1000 MHz frequency range. This 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 achieves high efficiency operation with proven reliability. Like all OPHIR_{RF} amplifiers, the 5128RE-900 comes with an extended multiyear warranty.

	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	800 Watts Typical
3	Power Output @ 1dB Comp.	500 Watts Typical
4	Small Signal Gain	+59 dB min
5	Gain Flatness	± 5.0 dB max
6	IP ₃	+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	10,000 Watts max
12	AC Input	180 – 240 VAC, 3 Ø
13	RF Input	0 dBm max without damage
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
<u>Mechanical</u>		
16	Dimensions	31" x 24" x 26"
17	Weight	330 lb. max
18	Connectors	RF In: Type-N; RF Out: 7/16
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.



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

FEATURES:

- ◇ Customer Specific Front Panel
 - ◇ Front Panel Controller
 - ◇ Rear Panel Mounted DB9-Female for External RF Enable / Standby Control
- NOTE: Pin 5 is GND, Pin 1 is the Control Line.

CIRCUIT INDICATIONS

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

ORDERING MODELS

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