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MODEL 5129-002

80 - 1000 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5129 is a 1000 Watt broadband amplifier that covers the 80 – 1000 MHz frequency range. 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 achieves high efficiency operation with proven reliability.

Specifications subject to change without notice

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	80 – 1000 MHz
2	Saturated Output Power	1000 Watts Minimum
3	Power 1dB Compression	500 Watts Minimum
4	Small Signal Gain	+61 dB min
5	Gain Flatness Gain Flatness with ALC On	+/-3.5 dB +/-1.0dB
6	IP_3	+65 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-15 dBc typical
9	Spurious Signals	< -60 dBc typical
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	8,000 Watts max
12	AC Input	186 – 264 VAC, three phase
13	RF Input	0 dB max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	42” x 24” x 30” (H x W x D)
17	Weight	550 lb. max
18	RF Connectors	Type-N for Input Type 7/16 DIN Connector for Output
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
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 - Rear model w/Ethernet, RS232, and IEEE-488 Interface

◊ FE - Front model w/Ethernet, RS232, and IEEE-488 Interface

CIRCUIT CONTROL

◊ Standby (amplifier disable)
◊ Gain/power setting with 20dB range
◊ VSWR protection Reset
◊ ALC On/ Off

CIRCUIT PROTECTIONS

◊ Thermal Overload
◊ Over Current
◊ Over Voltage
◊ VSWR protection
◊ RF Output power level

CIRCUIT INDICATIONS

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

Approved By: _____ Date: _____