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MODEL 5129-001
20 - 1000 MHz
1000 WATTS
LINEAR POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 5129-001 is a 1000 Watt broadband amplifier that covers the 20 – 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.

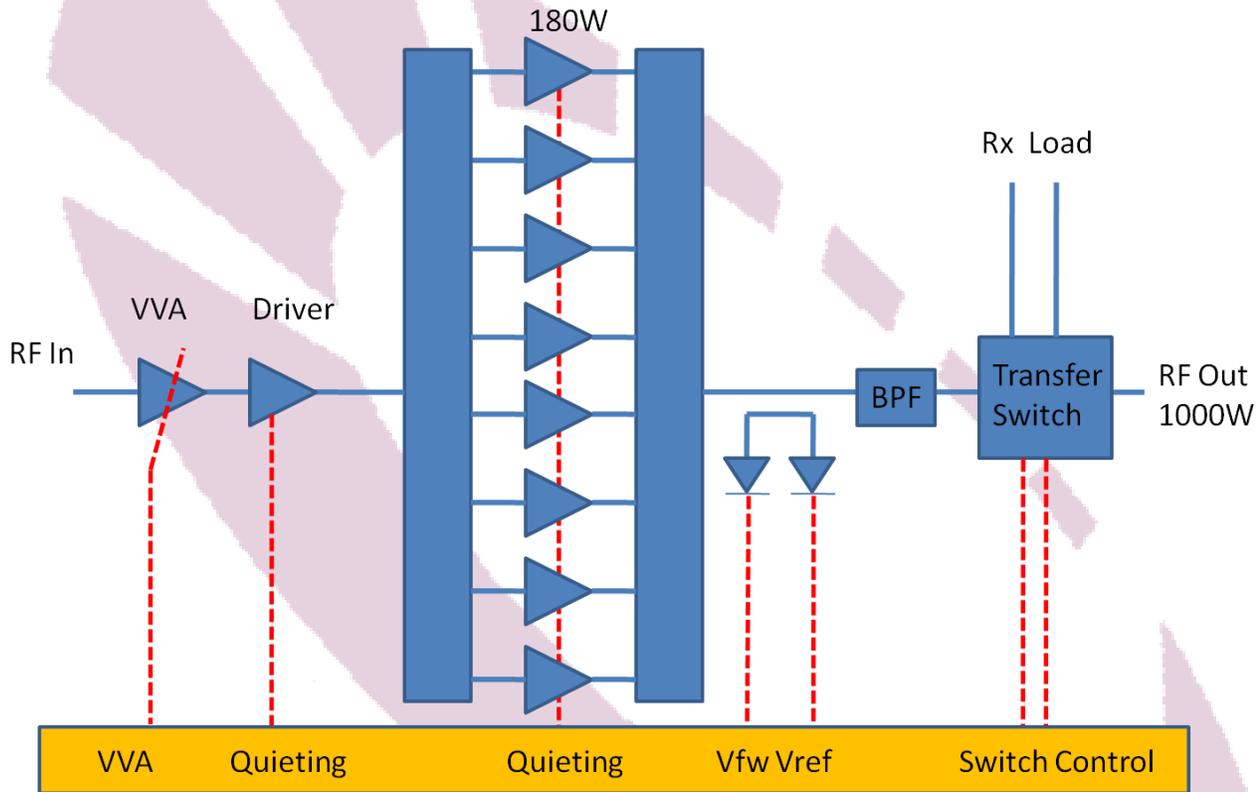
Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	1000 Watts min @ 50 ohm 1000 Watts min average into 2:1 load with a min. power of 800W 1000 Watts min average @ 55°C load with a min. power of 800W
3	Output power at P1dB	600W min.
4	Small Signal Gain	+62 dB min
5	Gain Flatness Gain Flatness with ALC On	+/-3.5 dB +/-1.0dB
6	IP ₃	+68 dBm typ.
7	Input VSWR	2:1 max
8	Harmonics	-30 dBc max @ P1dB
9	Spurious Signals	> -60 dBc max
10	Output Switching	Transfer switch Tx out , RX out to Load, Antenna Switching speed 20mS max 60dB isolation
11	Noise quieting (blinking)	5uS max -160dBm/Hz External BNC connector
12	Input/Output Impedance	50 Ohms nominal
13	Output filter	30dB rejection @ 1.2GHz TBD rejection below 20MHz
14	AC Input Power	9,000 Watts max
15	AC Input	186 – 264 VAC, three phase
16	RF Input	0 dB max
17	Class of Operation	A/AB
<u>Mechanical</u>		
18	Preliminary Dimensions	42" x 24" x 30" (H x W x D)
19	Preliminary Weight	550 lb. max
20	RF Connectors	Type-N for Input Type 7/16 DIN Connector for RF Output
21	Grounding	Chassis
22	Cooling	Internal Forced Air
<u>Environmental</u>		
23	Operating Temperature	-15° C to +55° C
24	Operating Humidity	95% Non-condensing
25	Operating Altitude	Up to 10,000' Above Sea Level
26	Shock and Vibration	Normal Truck Transport



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CIRCUIT INDICATIONS

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

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
- ◇ Hot switching

ORDERING MODELS

- ◇ RE - Rear model w/Ethernet, RS232, and IEEE-488 Interface
- ◇ FE - Front model w/Ethernet, RS232, and IEEE-488 Interface