



5300 Beethoven Street, Los Angeles, CA 90066
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MODEL 5128-001

20 - 1000 MHz
500 WATTS
LINEAR POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 5128-001 is a 500 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.

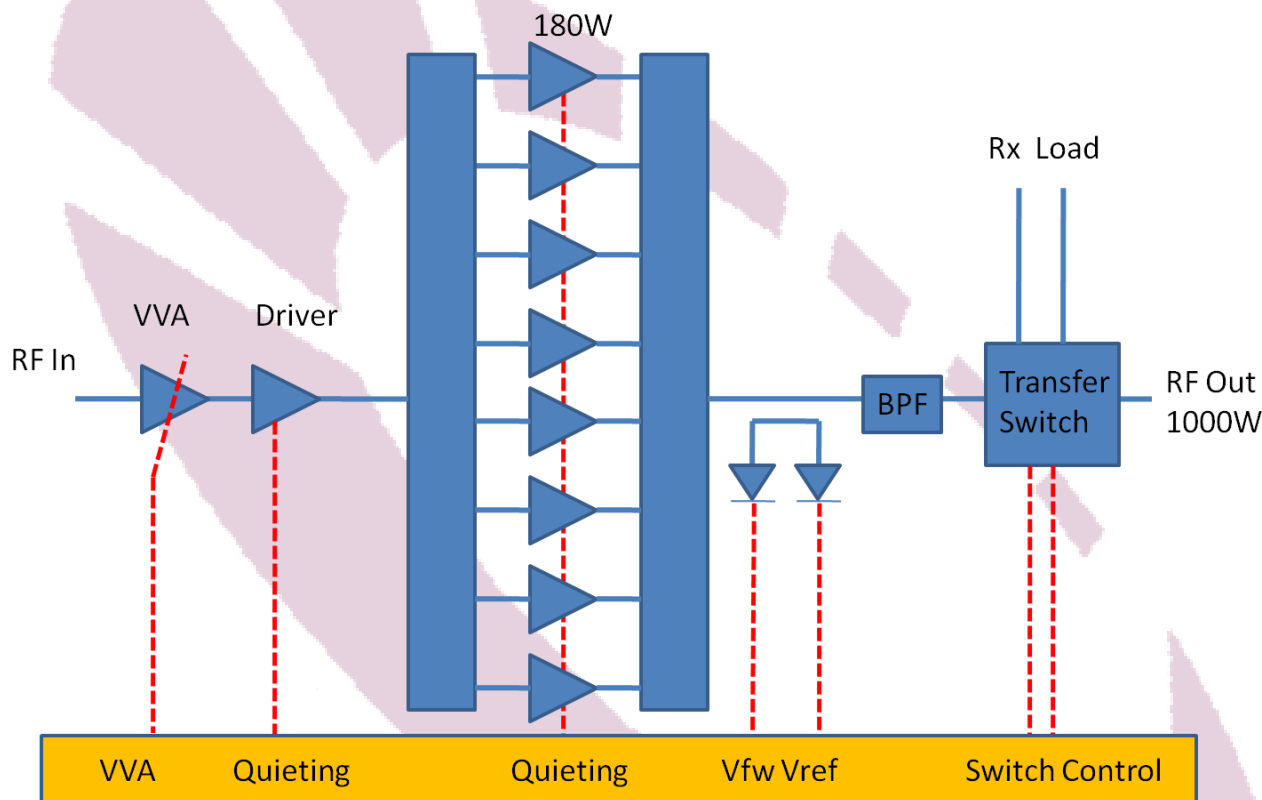
	Parameter	Specification @ 25° C
<u>Electrical</u>		
1	Frequency Range	20 – 1000 MHz
2	Saturated Output Power	500 Watts min @ 50 ohm 500 Watts min average into 2:1 load with a min. power of 400W 500 Watts min average @ 55°C load with a min. power of 400W
3	Output power at P1dB	300W min.
4	Small Signal Gain	+59 dB min
5	Gain Flatness Gain Flatness with ALC On	+/-3.5 dB +/-1.0dB
6	IP ₃	+65 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 (blanking)	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	4,500 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	31" x 24" x 26" (H x W x D)
19	Preliminary Weight	360 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