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**MODEL 7001**  
**20 - 3000 MHz**  
**22 WATTS**  
**BANDED POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 7001 is a 25W multi channel broadband system that covers the 20 – 3000 MHz frequency range with a single RF input and Single RF output port.

The system includes RF high power switches controlled by the system controller. The RS232/ Ethernet and/or Front panel key-pad provides full control and reduces the power consumption to the minimum by shutting down the un-selected channel. The System is configured in a Rear panel Connectors configuration.

	<u>Parameter</u>	<u>Specification @ 25° C</u>
<b><u>Electrical</u></b>		
1	Frequency Range	20 – 3000 MHz
2	Saturated Power Output	22 Watts typ.
3	Nominal RF drive for rated power	0 dB typ.
4	Small Signal Flatness	+/-2dB
5	Power Output @ P1dB	11 Watts min @ 20 to 1000 MHz 18 Watts typ. @ 1 to 3 GHz
6	Input VSWR	2:1 max
7	Harmonics	-15 dBc typ. @ 20 to 1000 MHz -20 dBc typ. @ 1 to 3 GHz
8	Spurious Signals	> -60 dBc typical
9	Temperature Protection	Baseplate above 80° C
10	AC Power Consumption (only one channel transmit at the time)	250 Watt @ 20 to 1000 MHz 500 Watts @ 1 to 3 GHz
11	Noise Figure	10dBm max
12	Maximum RF Input	10 dBm max for 10 sec
13	Antenna Switching time	50mS max
<b><u>Mechanical</u></b>		
14	Dimensions	19" x 26" x 5.25"
15	Weight	50 lb. max
16	Connectors	Type-N
17	Grounding	Chassis
18	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
19	Operating Temperature	0° C to +50° C
20	Operating Humidity	95% Non-condensing
21	Operating Altitude	Up to 10,000' Above Sea Level
22	Shock and Vibration	Normal Truck transport



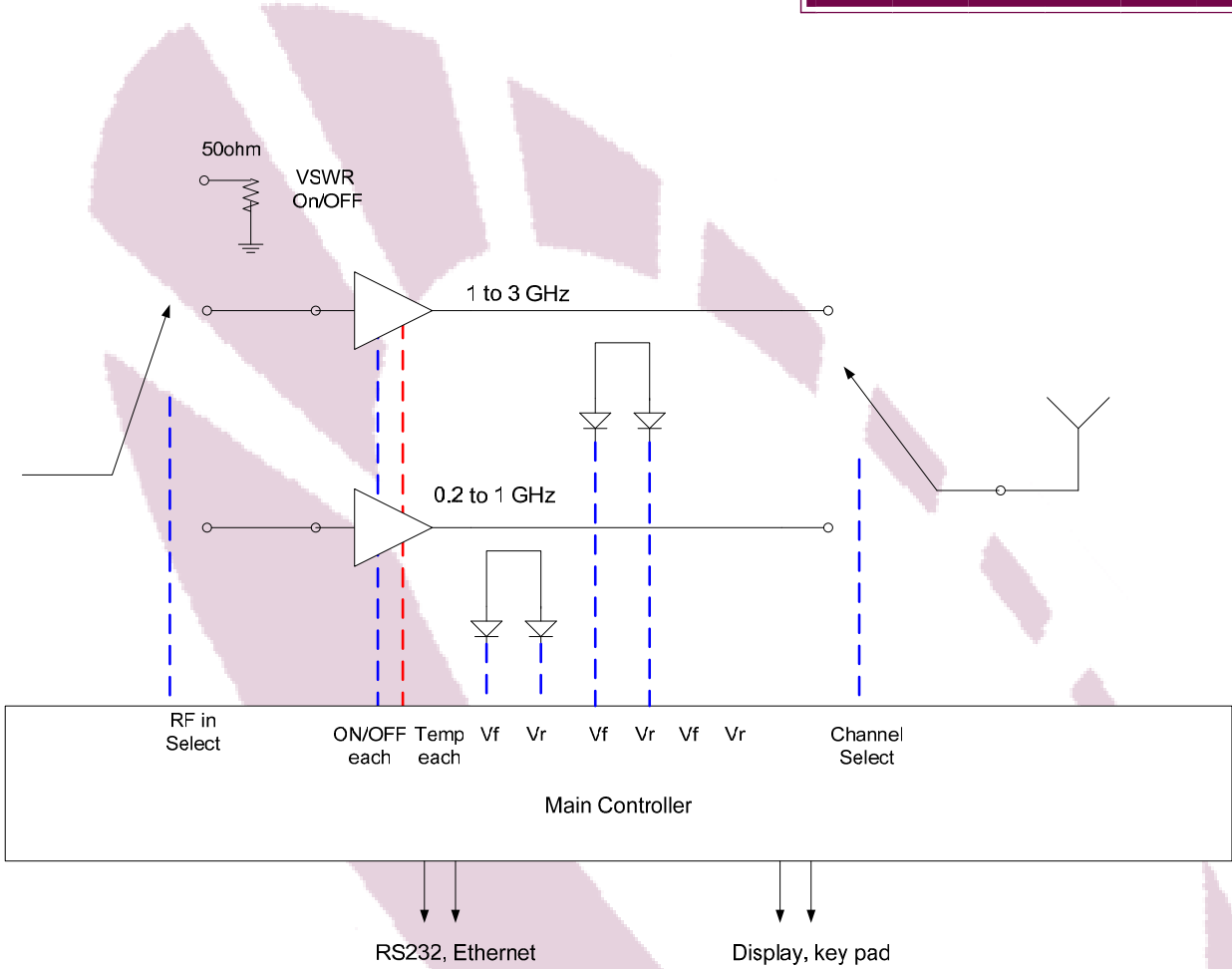
Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



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**CIRCUIT PROTECTIONS**

- ◇ Protection against VSWR of > 2:1 latched with Reset
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage

**CONTROL & INDICATIONS**

- ◇ AC Circuit Breaker
- ◇ Band Select
- ◇ Forward power of selected channel
- ◇ Reflected Power of selected channel
- ◇ VSWR Fault Reset

