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MODEL 7004
20 - 2000 MHz
22 WATTS
BANDED POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 7004 is a 20W multi channel broadband system that covers the 20 – 2000 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> |
|-----------------------------|--|---|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 20 – 2000 MHz |
| 2 | Saturated Power Output | 20 Watts typ. |
| 3 | Nominal RF drive for rated power | 0 dB typ. |
| 4 | Small Signal Flatness | +/-2dB |
| 5 | Power Output @ P1dB | 10 Watts min @ 20 to 1000 MHz 10 Watts typ. @ 1 to 2 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 | AC Power Input | 100-240VAC, 1Ø single Phase |
| 12 | Noise Figure | 10dBm max |
| 13 | Maximum RF Input | 10 dBm max for 10 sec |
| 14 | Antenna Switching time | 50mS max |
| <u>Mechanical</u> | | |
| 15 | Dimensions | 19" x 26" x 5.25" |
| 16 | Weight | 50 lb. max |
| 17 | Connectors | Type-N |
| 18 | Grounding | Chassis |
| 19 | Cooling | Internal Forced Air |
| <u>Environmental</u> | | |
| 20 | Operating Temperature | 0° C to +50° C |
| 21 | Operating Humidity | 95% Non-condensing |
| 22 | Operating Altitude | Up to 10,000' Above Sea Level |
| 23 | Shock and Vibration | Normal Truck transport |

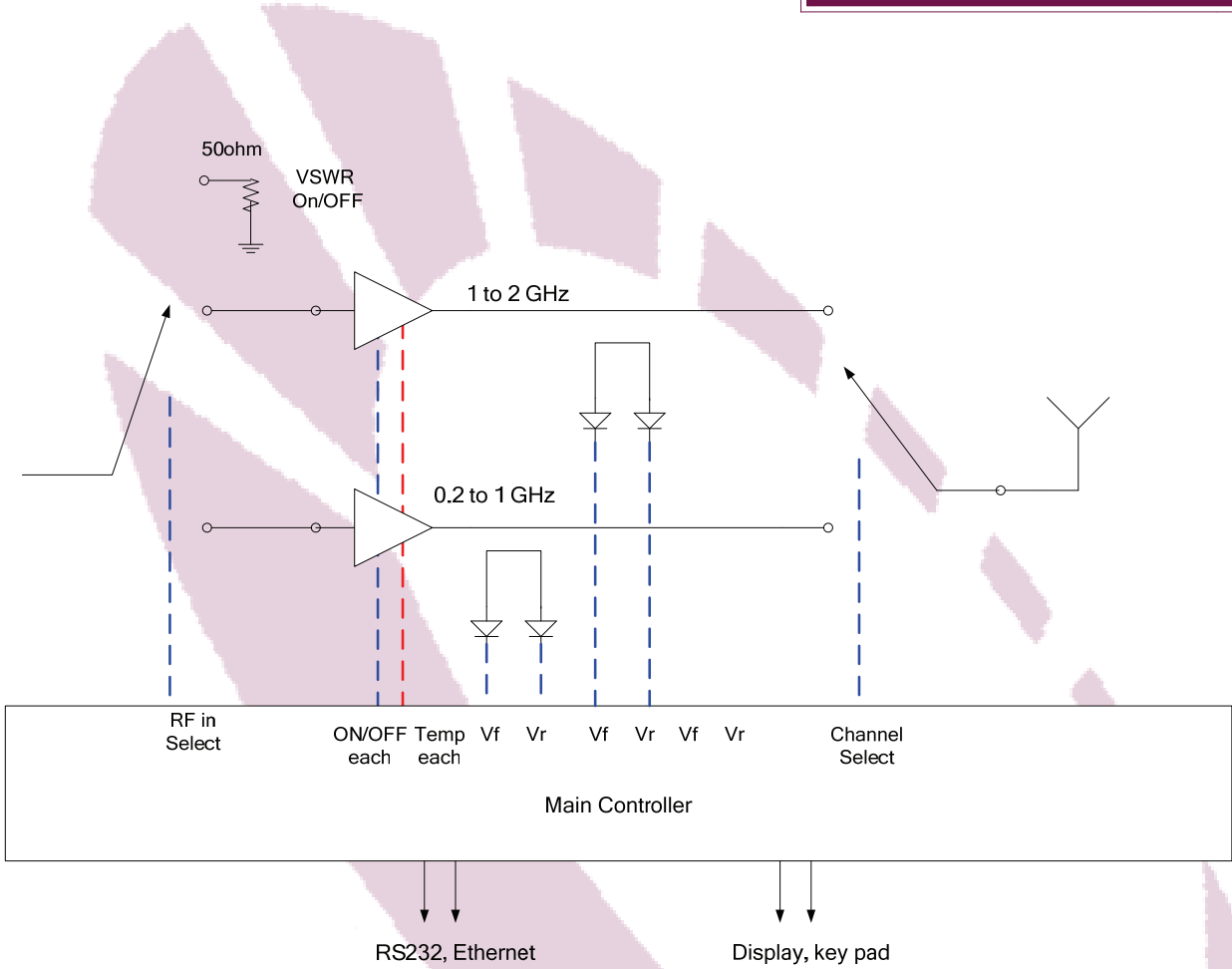
Specifications subject to change without notice





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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

