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**MODEL 7003RE**  
**20 - 6000 MHz**  
**20 to 50 WATTS**  
**BANDED POWER RF AMPLIFIER**

**Solid State  
 Broadband High  
 Power RF Amplifier**

The 7003 is a multi channel broadband system that covers the 20 – 6000 MHz frequency range with switching capabilities for transmitting into 4 Antennas.

This integrated system provides 22W to 50W power as specified in the spec for any selected frequency range.

The system includes RF high power switches controlled by the system controller. The IEEE-488, RS232/Ethernet and/or Front panel key-pad provides full control of the Antenna interface and reduces the power consumption to the minimum by shutting down the unselected channels.

	Parameter	Specification @ 25° C
<b><u>Electrical</u></b>		
1	Frequency Range	20 – 6000 MHz
2	Saturated Power Output	22 Watts typ. @ 20 to 1000 MHz 30 Watts typ. @ 1 to 2.5 GHz 50 Watts typ. @ 2.5 to 6.0 GHz
3	Nominal RF drive for rated power	0 dBm typ.
4	Power Output @ P1dB	10 Watts min. @ 20 to 1000 MHz 15 Watts min. @ 1 to 2.5 GHz 30 Watts min. @ 2.5 to 6.0 GHz
5	Input VSWR	2:1 max
6	Harmonics	-15 dBc typ. @ 20 to 1000 MHz -20 dBc typ. @ 1 to 6 GHz
7	Spurious Signals	< -60 dBc typical
8	Temperature Protection	Baseplate above 80° C
9	AC Power Consumption (only one channel transmit at the time)	350 Watt @ 20 to 1000 MHz 400 Watts @ 1 to 2.5 GHz 600 Watts @ 2.5 to 6 GHz
10	AC Power Input	100-240VAC, 1Ø
11	<b>Maximum RF Input</b>	<b>+3 dBm max</b>
12	Antenna Switching time	50ms max
<b><u>Mechanical</u></b>		
13	Dimensions	19" x 26" x 8.75"
14	Weight	80 lb. max
15	Connectors	Type-N (on Rear panel only)
16	Grounding	Chassis
17	Cooling	Internal Forced Air
<b><u>Environmental</u></b>		
18	Operating Temperature	0° C to +50° C
19	Operating Humidity	95% Non-condensing
20	Operating Altitude	Up to 10,000' Above Sea Level
21	Shock and Vibration	Normal Truck transport

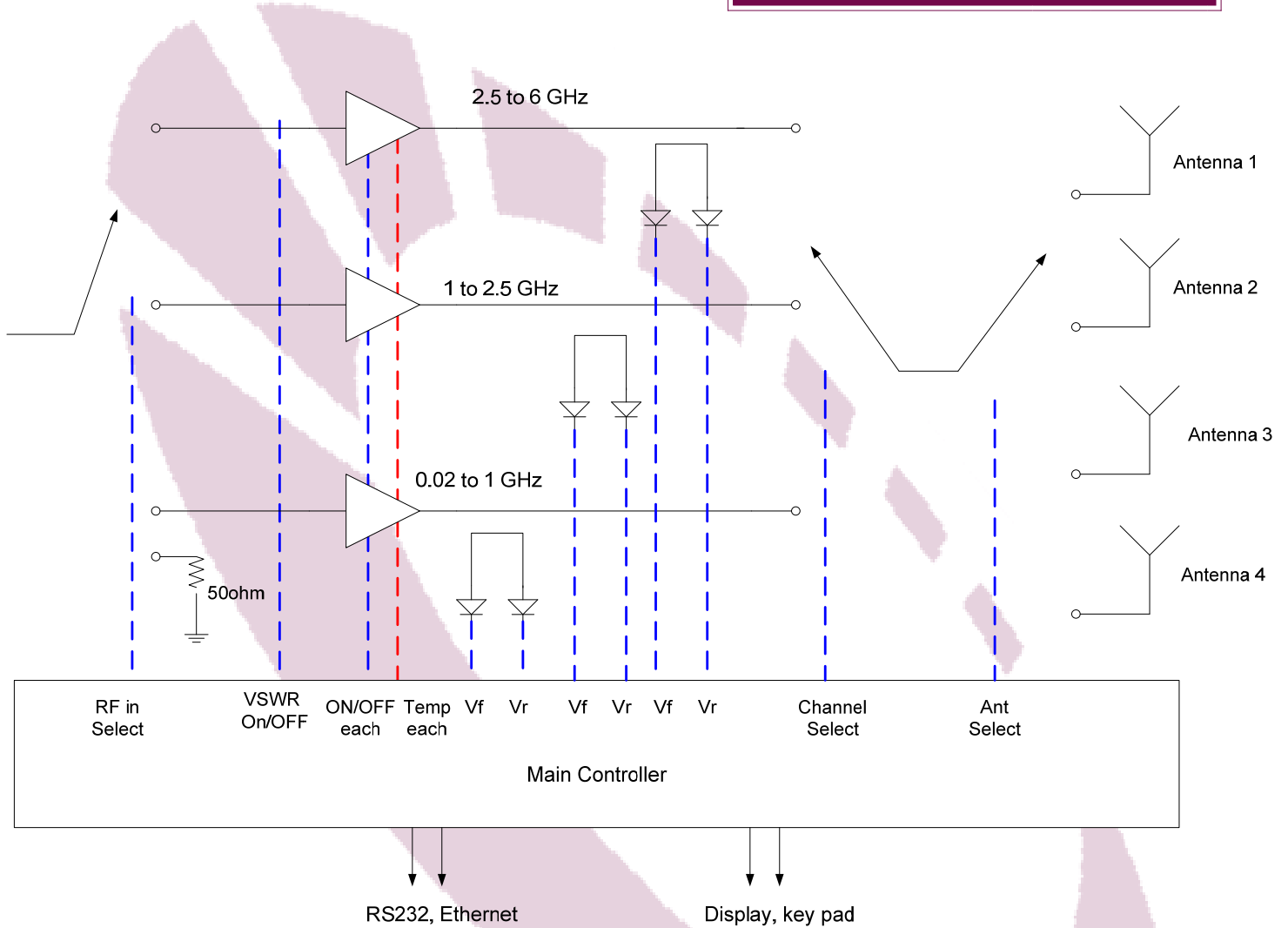


Specifications subject to change without notice



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**CONTROL & INDICATIONS:**

- ◇ AC Circuit Breaker
- ◇ Band Select
- ◇ Antenna Select
- ◇ Forward power of selected channel
- ◇ Reflected Power of selected channel
- ◇ VSWR Fault Reset
- ◇ Heatsink Temperature of selected Channel
- ◇ Voltage and Current of selected Channel

**CIRCUIT PROTECTIONS:**

- ◇ Infinite VSWR assuming 35 feet of RF cable
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage