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MODEL 7009
10KHz - 3000 MHz
30 to 250 WATTS
BANDED POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 7009 is a multi channel broadband system that covers the 10KHz – 3000 MHz frequency range with switching capabilities for transmitting into 4 Antennas.

This integrated system provides 30W to 250W power as specified in the spec for any selected frequency range.

The system includes RF high power switches controlled by the system controller. The 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 un-selected channels.

| | <u>Parameter</u> | <u>Specification @ 25° C</u> |
|-----------------------------|--|--|
| <u>Electrical</u> | | |
| 1 | Frequency Range | 10Khz – 3000 MHz |
| 2 | Saturated Power Output | 250 Watts typ. @ 10KHz to 200 MHz 50 Watts min @ 200 to 1000 MHz 30 Watts min @ 1000 to 3000 MHz |
| 3 | Nominal RF drive for rated power | 0 dB typ. |
| 4 | Input VSWR | 2:1 max |
| 5 | Harmonics | -15 dBc typ. |
| 6 | Spurious Signals | > -60 dBc typical |
| 7 | Temperature Protection | Baseplate above 80° C |
| 8 | AC Power Consumption (one channel transmits) | 1250 Watt @ 10KHz to 200MHz 400 Watts @ 200 to 1000 MHz 300 Watts @ 1000 to 3000 MHz |
| 9 | AC Power Input | 100-240VAC, 1Ø single Phase |
| 10 | Maximum RF Input | 10 dBm max |
| 11 | Antenna Switching time | 100mS max |
| <u>Mechanical</u> | | |
| 12 | Dimensions | 19" x 26" x 12.25" |
| 13 | Weight | 150 lb. max |
| 14 | Connectors | Type-N |
| 15 | Grounding | Chassis |
| 16 | Cooling | Internal Forced Air |
| <u>Environmental</u> | | |
| 17 | Operating Temperature | 0° C to +50° C |
| 18 | Operating Humidity | 95% Non-condensing |
| 19 | Operating Altitude | Up to 10,000' Above Sea Level |
| 20 | Shock and Vibration | Normal Truck transport |

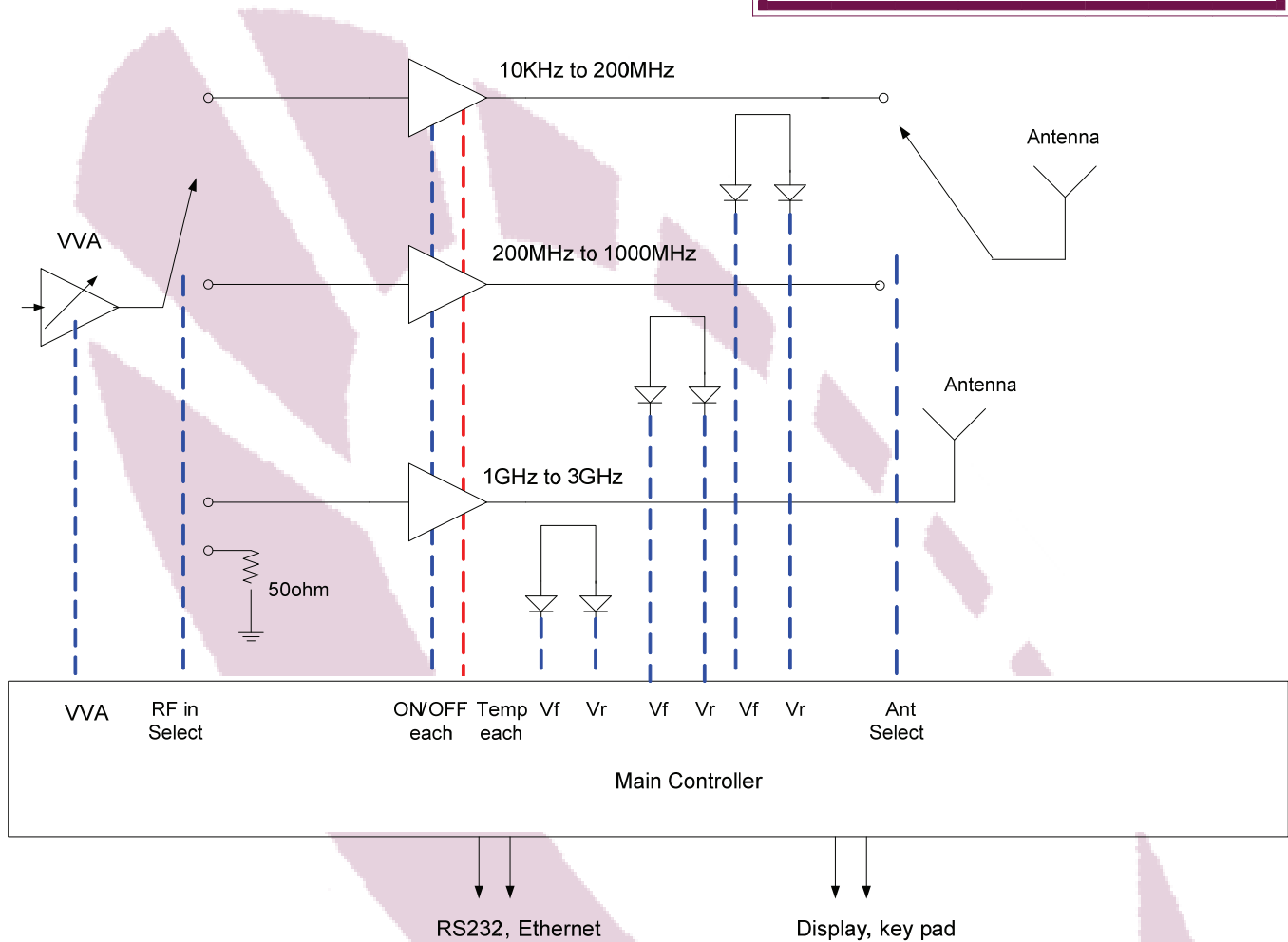
Specifications subject to change without notice





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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 25dB range
- ◇ Temp Fault
- ◇ Band Selection

CIRCUIT PROTECTIONS

- ◇ Infinite VSWR
- ◇ Thermal Overload
- ◇ Over Current
- ◇ Over Voltage