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MODEL 7023

0.01 - 450 MHz
150 WATTS
BANDED POWER RF AMPLIFIER

Solid State Broadband High Power RF Amplifier

The 7023 is a 150W multi channel broadband system that covers the 0.01 – 450 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.

| | Parameter | Specification @ 25° C |
|----------------------|--|--|
| Electrical | | |
| 1 | Frequency Range | 0.01 – 450 MHz |
| 2 | Saturated Power Output | 150 Watts typ. |
| 3 | Nominal RF drive for rated power | 0 dB typ. |
| 4 | Small Signal Flatness | +/- 2dB |
| 5 | Power Output @ P1dB | 80 Watts min @ 0.01 to 20 MHz 80 Watts min. @ 20 to 450 MHz |
| 6 | Input VSWR | 2:1 max |
| 7 | Harmonics | -15 dBc typ. @ 0.01 to 20 MHz -20 dBc typ. @ 20 to 450 MHz |
| 8 | Spurious Signals | < -60 dBc typical |
| 9 | Temperature Protection | Baseplate above 80° C |
| 10 | AC Power Consumption (only one channel transmit at the time) | 1500 Watt Max. |
| 11 | AC Power Input | 100-240VAC, 1Ø |
| 12 | Maximum RF Input | +3 dBm max |
| 13 | Antenna Switching time | 50mS max |
| Mechanical | | |
| 14 | Dimensions | 19" x 24" x 7.0" |
| 15 | Weight | 80 lb. max |
| 16 | Connectors | Type-N |
| 17 | Grounding | Chassis |
| 18 | Cooling | Internal Forced Air |
| Environmental | | |
| 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 |

Specifications subject to change without notice

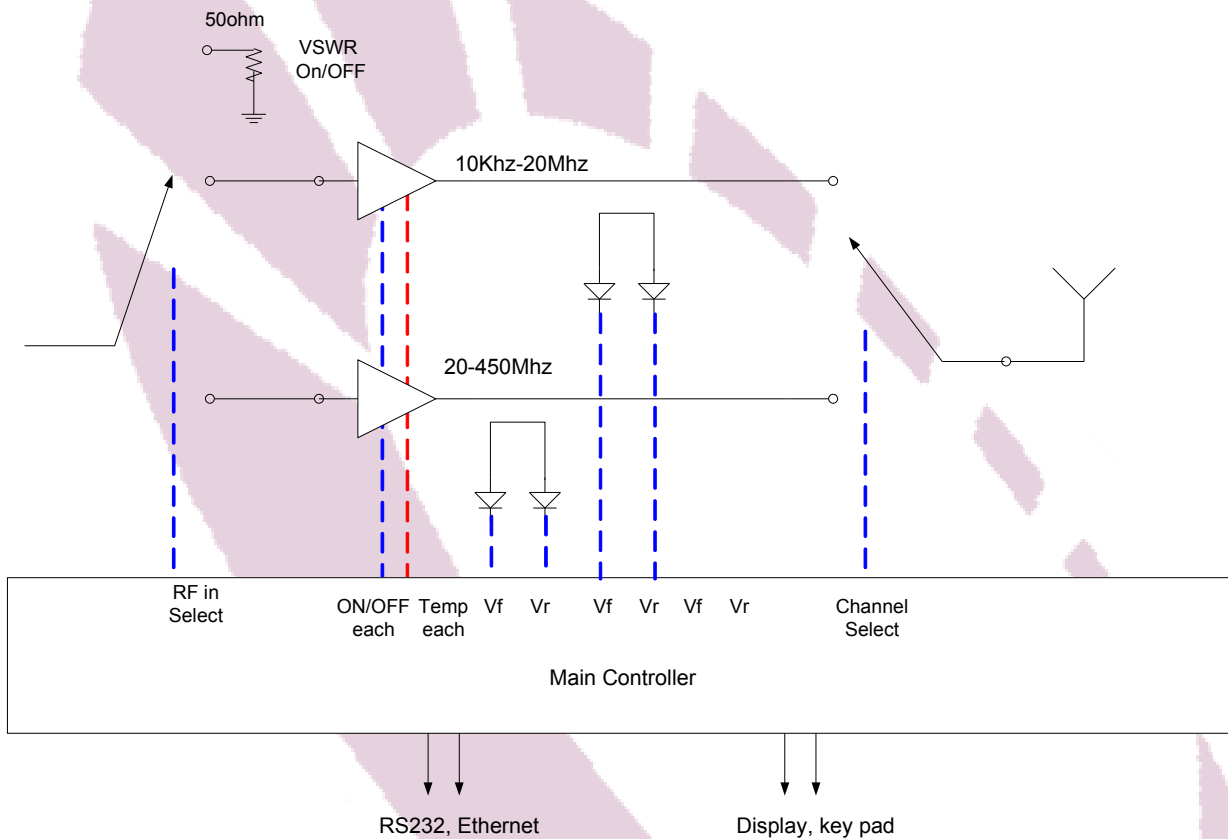




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Control and Circuit Indicators

- ◇ Forward Power
- ◇ Reflected power of selected channel
- ◇ VSWR Fault
- ◇ Temp Fault
- ◇ Gain Setting (VVA) percentage
- ◇ AC Circuit Breaker
- ◇ Band Select
- ◇ VSWR Fault Reset

Circuit Protections

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