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# MODEL 7002-030

**20 - 3000 MHz**
**50 WATTS**
**BANDED POWER RF AMPLIFIER**

## Solid State Broadband High Power RF Amplifier

The 7002-030 is a 50W multi channel broadband system that 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 IEEE-488/ 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. Front Panel Connector configuration can be selected if needed (Ophir P/N 7002-030FE).

| | Parameter | Specification @ 25° C |
|---|---|---|
| **Electrical** | | |
| 1 | Frequency Range | 20 – 3000 MHz |
| 2 | Saturated Power Output | 50 Watts typ. |
| 3 | Nominal RF drive for rated power | 0 dB typ. |
| 4 | Power Flatness | +/-2.0 dB per band |
| 5 | Power Output @ P1dB | 20W minimum |
| 6 | Input VSWR | 2:1 max |
| 7 | Harmonics | -20 dBc typ. @ 20 to 1000 MHz<br>-20 dBc typ. @ 1.0 to 3.0 GHz |
| 8 | Spurious Signals | < -60 dBc typical |
| 9 | Temperature Protection | Baseplate above 80º C |
| 10 | AC Power Consumption | 1,000 Watt maximum |
| 11 | AC Power Input | 100-240VAC, 1Ø single Phase |
| 12 | Maximum RF Input | +3 dBm max |
| 13 | Antenna Switching time | 50mS max |
| **Mechanical** | | |
| 14 | Dimensions | 19” x 5.25 x 26” |
| 15 | Weight | 50 lb. max |
| 16 | Connectors | Type-N |
| 17 | Grounding | Chassis |
| 18 | Cooling | Internal Forced Air |
| **Environmental** | | |
| 19 | Operating Temperature | 0º C to +50º 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

 Approved By: _____ Date: _____

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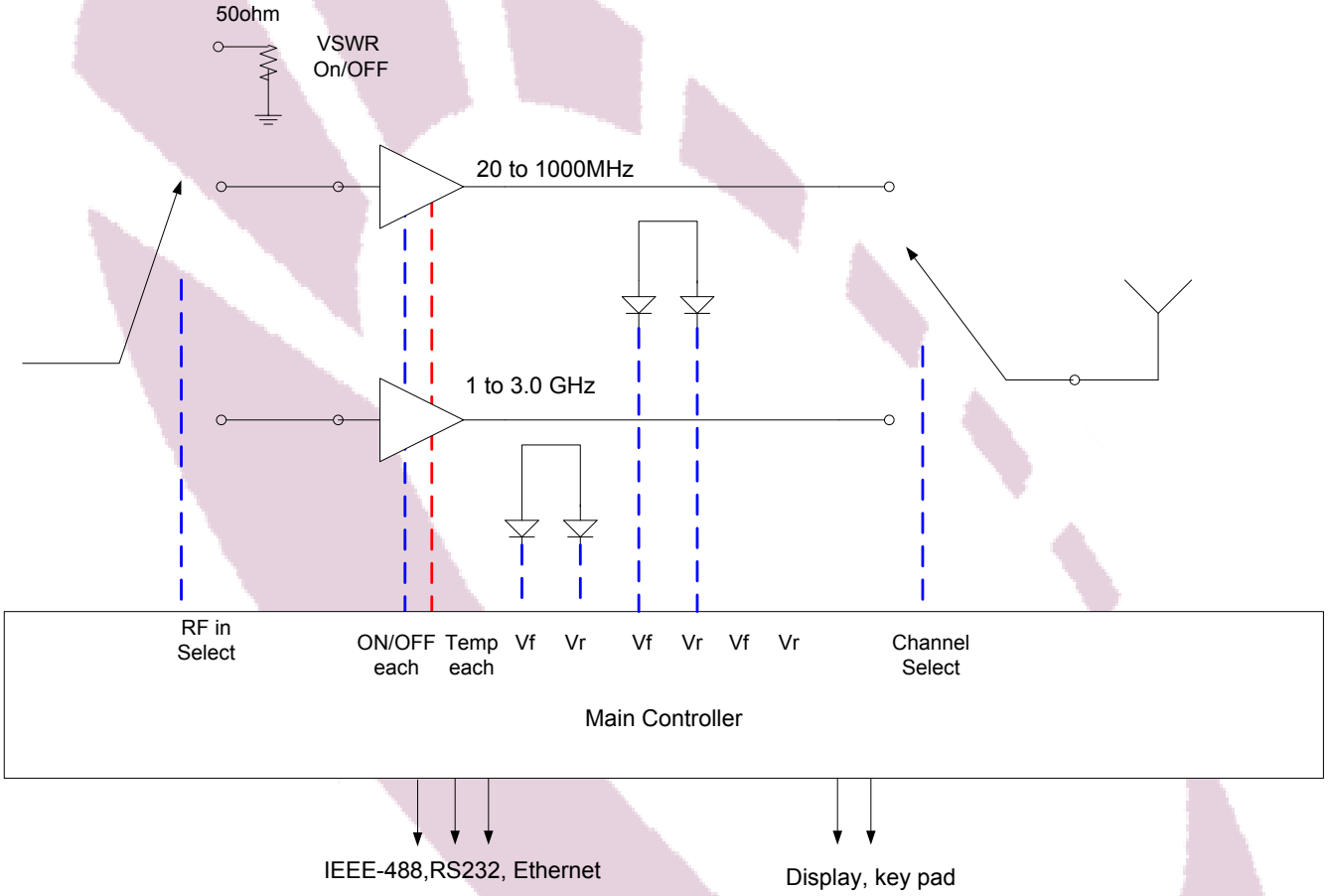


## CIRCUIT PROTECTIONS

- ◊ Protection against VSWR of > 3:1 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

Certified to ISO 9001:2008

TÜVRheinland Precisely Right.

Made in the U.S.A.

06/12

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