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MODEL 7006
1.0 - 6.0 GHz
50-80 WATTS
BANDED POWER RF AMPLIFIER

**Solid State
 Broadband High
 Power RF Amplifier**

The 7006 is a 50—80W multi channel broadband system that covers the 1.0—6.0 GHz 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 Connector configuration.

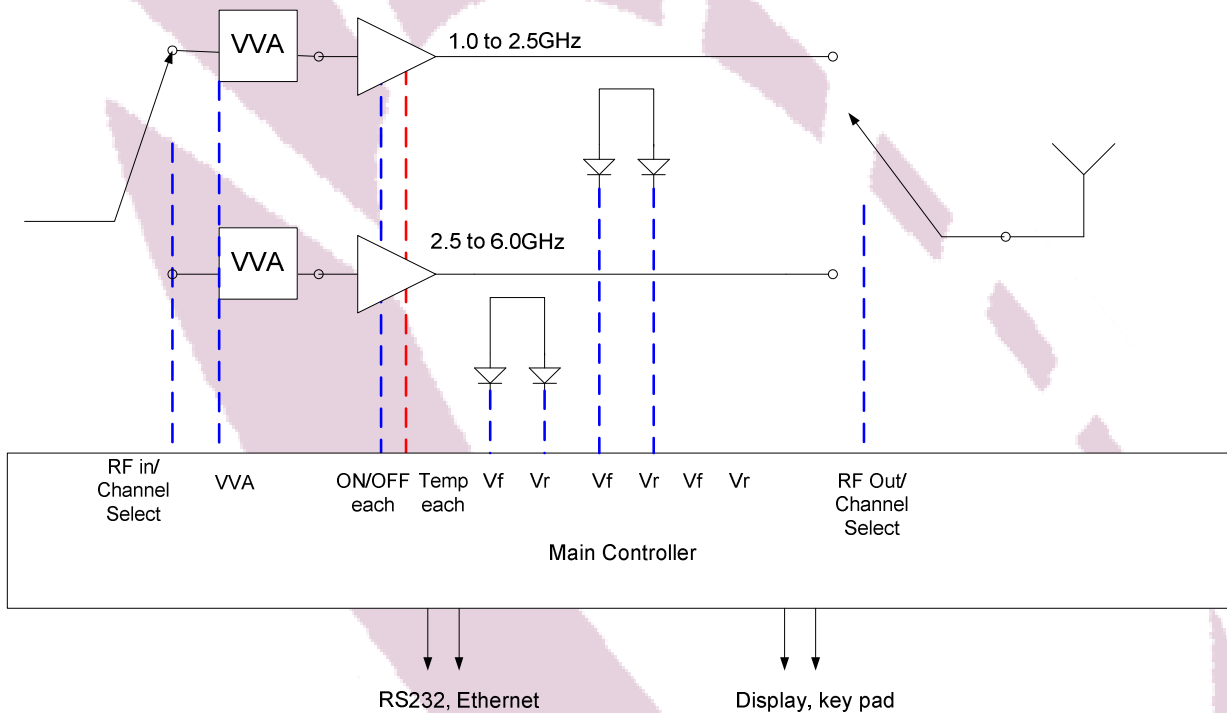
	<u>Parameter</u>	<u>Specification @ 25° C</u>
<u>Electrical</u>		
1	Frequency Range	1.0 – 6.0 GHz
2	Saturated Power Output	80 Watts Typ. @ 1.0 to 2.5 GHz 50 Watts Typ. @ 2.5 to 6.0 GHz
3	Nominal RF drive for rated power	0 dB Typ.
4	Small Signal Flatness	+/-3dB with no ALC +/-1dB with ALC
5	Power Output @ P1dB	60 Watts min @ 1.0 to 2.5 GHz 40 Watts Typ. @ 2.5 to 6.0 GHz
6	Input VSWR	2:1 max
7	Harmonics	-20 dBc Typ.
8	Spurious Signals	> -60 dBc typical
9	Temperature Protection	Baseplate above 80° C
10	AC Power Consumption (one channel transmit at the time)	900 Watt @ 1.0 to 2.5 GHz 600 Watts @ 2.5 to 6.0 GHz
11	Variable Gain control	25dB via front panel display and/or by RS232/Ethernet
12	Maximum RF Input	10 dBm max for 10 sec
13	Antenna Switching time	50mS max
<u>Mechanical</u>		
14	Dimensions	19" x 26" x 8.75"
15	Weight	50 lb. max
16	Connectors	Type-N
17	Grounding	Chassis
18	Cooling	Internal Forced Air
<u>Environmental</u>		
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





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CONTROL & INDICATIONS

- ◇ AC Circuit Breaker
- ◇ Band Select
- ◇ Forward power of selected channel
- ◇ Reflected Power of selected channel
- ◇ VSWR Fault Reset

CIRCUIT PROTECTIONS

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