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Solid State Band-specific High Power RF Amplifier

The 4010-007 is a 200 Watt, P-1dB band-specific amplifier that covers the 694 – 706 MHz frequency range. This small and lightweight amplifier utilizes Class A/AB linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

CIRCUIT PROTECTIONS

- ◊ Thermal Overload
- ◊ Over Current
- ◊ Over Voltage
- ◊ VSWR protection

CIRCUIT INDICATIONS

- ◊ Forward Power
- ◊ Reflected power
- ◊ VSWR Fault
- ◊ Temp Fault
- ◊ Gain Setting (VVA) percentage

ORDERING MODELS

- ◊ RE - Rear Panel model with RS232, IEEE, & Ethernet
- ◊ FE - Front Panel model with RS232, IEEE, & Ethernet

MODEL 4010-007

**694 - 706 MHz
200 WATTS (P-1dB)
LINEAR POWER RF AMPLIFIER**

	Parameter	Specification @ 25° C
Electrical		
1	Frequency Range	694 – 706 MHz
3	Power Output @ 1dB Comp.	200 Watts min
4	Small Signal Gain	+56 dB min
5	Small Signal Gain Flatness	± 1.5 dB max
6	IP ₃	+58 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc typical @ 200 Watts
9	Spurious Signals	< -60 dBc @ 200 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1600 Watts max
12	AC Input	120 – 265 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	AB
Mechanical		
16	Dimensions	19" x 8.75" x 20"
17	Weight	80 lb. max
18	Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport

Specifications subject to change without notice.

CIRCUIT CONTROL

- ◊ Standby (amplifier disable)
- ◊ Gain/power setting with 25dB range
- ◊ VSWR protection Reset



FE Model Shown