SECTION I

GENERAL INFORMATION

1.1 GENERAL DESCRIPTION

The Model 200L is a self-contained, broadband amplifier intended for laboratory applications where instantaneous bandwidth, high gain, and moderate power output are required. When used with a frequency swept signal source it will provide 200 watts of linear swept power. The Model 200L employs the most up-to-date design technology in both its solid state low level amplifiers and vacuum tube final amplifier. All operating controls are functionally grouped on the front panel to simplify operator use. They include modern, lighted push button switches for the command functions, POWER, STANDBY, and OPERATE and a gain control for setting the output level of the amplifier.

Unique protective circuitry developed by Amplifier Research permits operation without shutdown or damage regardless of source and load VSWR thus making the Model 200L the most versatile unit available for laboratory use. Typical applications include antenna and component testing, wattmeter calibration, and EMI susceptibility testing.

1.2 POWER SUPPLIES

This unit has self-contained 115/208/230 VAC, 50/60 Hz, regulated and unregulated power supplies with a total power consumption of approximately 2,000 watts. A primary circuit breaker is provided.

1.3 SPECIFICATIONS

Refer to Amplifier Research Data Sheet on next page for detailed specifications.

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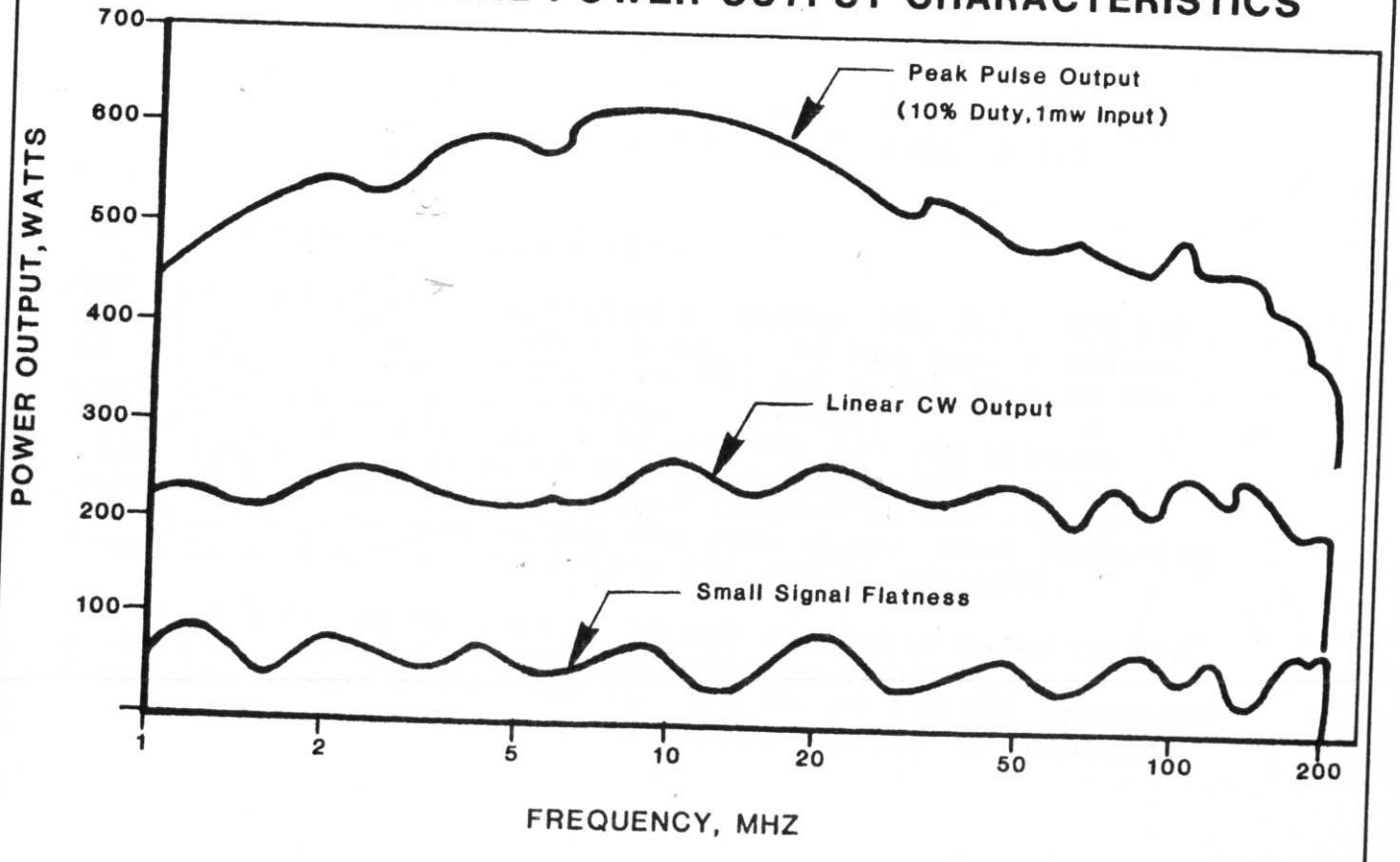
MODEL 200L
400 WATTS PULSE
200 WATTS CW
1-200 MHz

HIGH POWER PULSE CAPABILITY AND BLANKING

The Model 200L is a self-contained, air-cooled broadband amplifier that features instantaneous bandwidth, high gain, and moderate output. Designed for laboratory applications, the Model 200L, when used with a frequency swept signal source, provides 200 watts of swept power from 1 to 200 MHz. When supplied with a pulsed RF input, the Model 200L will provide 400 watts of output power. Over 500 watts of pulse power is available as shown in the accompanying graph. This highly versatile and reliable unit employs the latest design technology in its all-solid-state, low level stage and vacuum tube final amplifier. Housed in a stylish, contemporary enclosure, the Model 200L weighs considerably less than competitive equipment with similar power levels. All operating controls are functionally grouped on the front panel to simplify operator use. These include modern, lighted pushbutton switches for command functions, POWER, STANDBY, and OPERATE, and a control for setting the output level of the amplifier. Provisions are included to allow blanking of the amplifier during off periods in pulse operation. Unique protective circuitry developed by Amplifier Research permits operation into any load impedance without shutdown or damage.

TYPICAL POWER OUTPUT CHARACTERISTICS



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