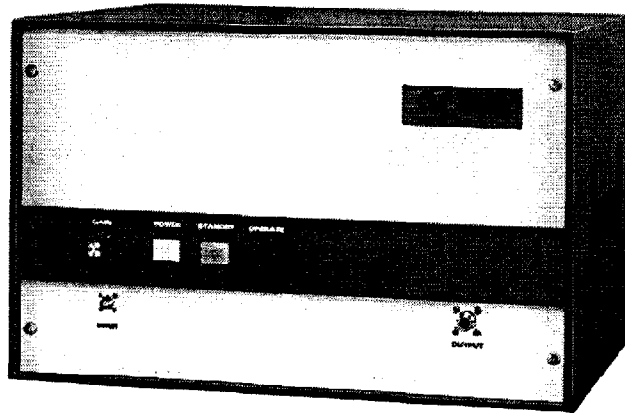




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Model 100L



The Model 100L 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 100 watts of swept power. The Model 100L 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. A meter is also available as an option.

Unique protective circuitry developed by Amplifier Research permits operation without shutdown or damage regardless of source and load VSWR thus making the Model 100L the most versatile unit available for laboratory use. Typical applications include antenna and component testing, wattmeter calibration, and EMI susceptibility testing.

This unit has self-contained 115/230 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.

Specifications, Model 100L

POWER OUTPUT.....	100 watts CW minimum into 50 ohms
FREQUENCY RESPONSE.....	10 KHz to 220 MHz instantaneously
FLATNESS.....	± 1.5 dB at 1.0 milliwatt input
INPUT POWER FOR RATED OUTPUT.....	1.0 milliwatt
POWER GAIN.....	50 dB minimum
OUTPUT IMPEDANCE.....	50 ohms, VSWR 2.0:1 maximum
INPUT IMPEDANCE.....	50 ohms, VSWR 1.5:1 maximum
HARMONIC DISTORTION.....	For fundamental frequencies below 120 MHz, not less than 15 dB below fundamental at 100 watt output. For fundamental frequencies above 120 MHz, not less than 30 dB below fundamental at 100 watt output.
MISMATCH TOLERANCE	The amplifier has protective circuitry which enables operation without shutdown or damage under any magnitude or phase of source and load VSWR.
PRIMARY POWER.....	115/230 $\pm 10\%$ vac, 50/60 Hz
RF CONNECTORS.....	Input: Type BNC Output: Type N
WEIGHT.....	140 lbs.
SIZE.....	21 x 14 x 18 inches



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