AMPLIFIER RESEARCH
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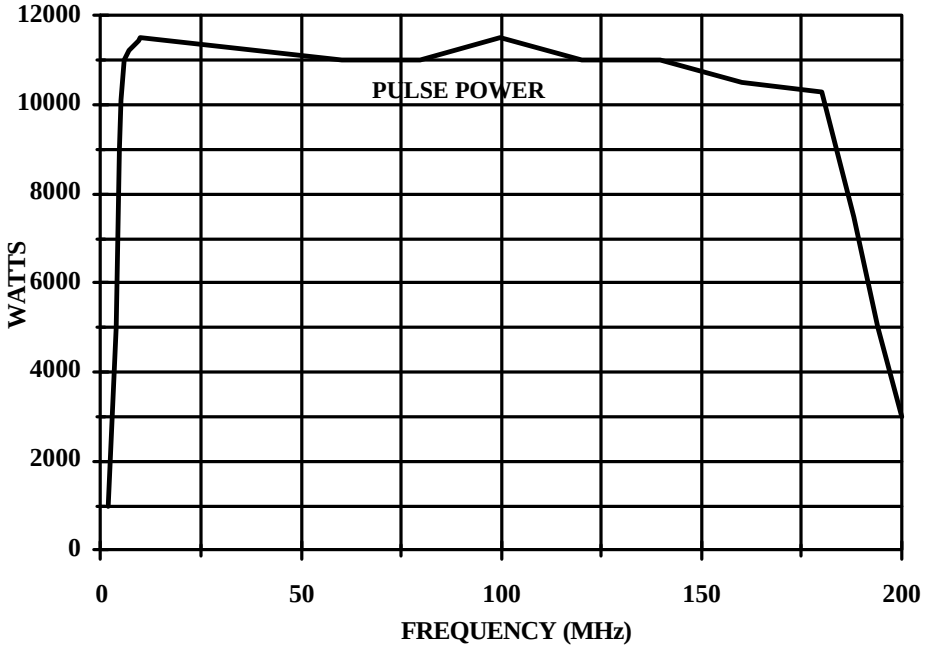
MODEL 10,000LP
10,000 WATTS PULSE
9 MHz - 180 MHz

The Model 10,000LP is a broadband amplifier designed for applications requiring instantaneous bandwidth, high gain, and linear, high power pulse output. It employs the latest design technology in its all-solid-state, low power stages and vacuum tube driver and final amplifiers. A continuously variable input attenuator permits the operator to adjust the output level as desired. Housed in a stylish contemporary enclosure, the model 10,000LP is smaller than competitive equipment with similar power levels. The final amplifier stage is operated in a gated mode to improve efficiency. In operation, the amplifier requires a gate input pulse preceding the RF input pulse. A rear panel connector enables remote control of POWER, STANDBY, OPERATE, and PULSE functions. When connected to model CP2001 or CP3000, these functions are respectively controlled by TTL level signals or IEEE-488 bus.

10,000LP TYPICAL POWER OUTPUT



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SPECIFICATIONS
Model 10,000LP

POWER OUTPUT	
High range, CW	***2000 watts minimum***
RMS pulse	***10,000 watts at <3 dB gain compression***
	8,000 watts at <1 dB gain compression
	1 to 1000 watts ± .25 dB linearity
PULSE LIMITS	***5% maximum duty cycle***
	10 milliseconds max. pulse length gating 1000 Hz per second maximum
	Pulse droop less than 4% at 10 milliseconds
LOW RANGE	***100 watts CW***
FLATNESS	***±1.5 dB***
FREQUENCY RESPONSE	***9 MHz - 180 MHz***
INPUT FOR RATED OUTPUT	***1.0 milliwatt or less***
GAIN (at maximum setting)	***70 dB minimum High Range Pulse Mode; 47 dB nominal Low Range***
GAIN ADJUSTMENT (continuous range)	***18 dB***
INPUT IMPEDANCE	***50 ohms, VSWR 1.5:1 maximum***
OUTPUT IMPEDANCE	***50 ohms, nominal***
MISMATCH TOLERANCE	***100%, will operate without damage, foldback or oscillation with any magnitude and phase of source and load impedance at rated output power***
MODULATION CAPABILITY	***Will faithfully reproduce AM, FM or pulse modulation appearing on the input signal***
HARMONIC DISTORTION	***Minus 14 dBc, 9-110 MHz,***
	Minus 25 dBc,110-180 MHz
NOISE FLOOR (Gated Off)	***Minus 125 dBm/Hz***
GATING CHARACTERISTICS - Pulse mode gating	
Signal (into 180 ohms)	***Plus or minus 2.5 to 6.0 VDC***
Rise time	***25 microseconds nominal***
Fall time	***5 microseconds nominal***
RF rise/fall time	***10 nanoseconds maximum***
PRIMARY POWER (specify one)	***200/208 ±5% VAC, 3 phase, 60 Hz;***
	380/415 ±5% VAC, 3 phase, 50/60 Hz
	18.2 kVA maximum
CONNECTORS	
RF input	***Type BNC female***
RF output	***Type C female***
Gating/Blanking	***Type BNC female***
Remote control	***25 pin female subminiature D***
COOLING OPTIONS (tap water recommended)	***Tap water, 19 - 23 LPM (5 - 6 GPM) at 20° C maximum;***
	Self contained forced air
WEIGHT	***455 kg (1000 lb)***
SIZE (WxHxD)	***56.1 x 173 x 67 cm (22.1 x 68 x 26.4 in)***