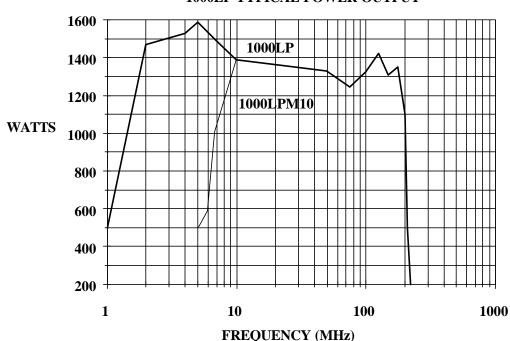
MODEL 1000LP/LPM10 300 WATTS CW 1000 WATTS PULSE 2-200 MHz/9-200 MHz

The Model 1000LP and its modified version, the 1000LPM10, are inexpensive, broadband amplifiers designed for applications which require instantaneous bandwidth, high gain, and linear, high power pulse output. The 1000LPM10, which includes a 9 MHz high pass output filter in its final amplifier, is designed for applications which require attenuation of low frequency pulse transients, which are created when the amplifier is blanked on and off. To increase their usefulness in RF testing, the amplifiers can also be operated in a CW mode which is front panel selectable.

The 1000LP employs solid-state, MOSFET, low power stages and vacuum tube final. The final amplifier stage operates in a gated mode to improve efficiency, reduce output noise, and increase the RF on/off ratio. Operating mode dependent blanking/gating input is provided on the front panel. In the CW mode an input signal (Blanking) turns the final amplifier off, reducing gain and output noise. In the Pulse mode an input signal (Gating) will switch the amplifier on. During the gate on time, the amplifier operates class A and will amplify RF pulses or other wave shapes within its specified operating range. A continuously variable input attenuator is provided to permit setting of the output power from the amplifier front panel. Overload protection is provided to prevent damage from overdrive or excessive pulse lengths or duty cycle. Crowbar protection of the final amplifier tubes and short circuit protection of all power supplies is also included.

Operating functions may be controlled remotely by TTL level signals or IEEE-488 bus when respectively connected to the Model CP2001 or CP3000. The Model 888 leveling preamplifier may be used to generate RF pulses synchronized with Blanking or Gating pulses.





## SPECIFICATIONS Model 1000LP

POWER OUTPUT	
Pulse	
Minimum	1000 watts
Duty cycle	
Pulse width	
CW	o muisconus muximum
Nominal	275 watta
Minimum	
Linear @ 1dB compression	250 watts
FLATNESS	±1.5 dB maximum, ±1.0 dB typical
FREQUENCY RESPONSE	
1000LP	2-200 MHz instantaneously
1000LPM10	9-200 MHz instantaneously
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
GAIN ADJUSTMENT(continuous range)	18 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 1.5:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
MISMATCH TOLERANCE*	100% at rated power without foldback.Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION. (at rated.power)	Minus 15 dBc maximum below 125 MHz Minus 25 dBc maximum above 125 MHz
GATING CHARACTERISTICS	
Pulse mode gating/CW mode blanking	
Signal (into 180 ohms)	Plus or minus 2.5 to 6.0 VDC
Rise time	
Fall time	
RF rise/fall time	
AI Tiseffut title	10 nanoscionas maximum
PRIMARY POWER	100/110/120/200/208/220/240±5% VAC
(select via internal taps)	
CONNECTORS	
CONNECTORS	T DIG C 1
RF input	
RF output	
Gating/Blanking	
Remote control	25 pin female subminiature D
COOLING	Forced air (self contained fans)
WEIGHT	82 kg (180 lb)
SIZE (WxHxD)	50.2 42.7 55.1 (10.0 16.0 21.7 )
	50.3 x 42.7 x 55.1 cm (19.8 x 16.8 x 21.7 in)

<sup>\*</sup>See Application Note #27