

The Model 1000A250 is a self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull MOSFET circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability.

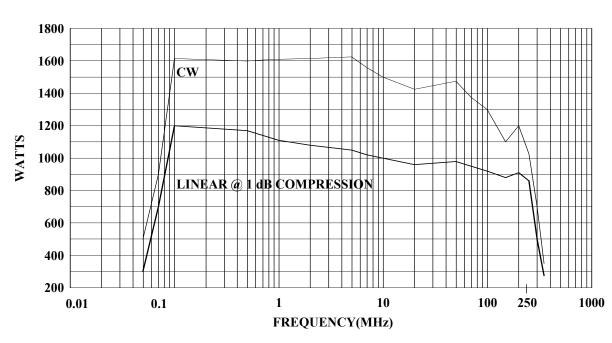
The Model 1000A250 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a 3¾-inch diagonal graphic display, menu assigned softkeys, a single rotary knob, and four dedicated switches (POWER, STANDBY, OPERATE and FAULT/RESET) to offer extensive control and status reporting capability. The display provides operational presentation of Forward Power and Reflected Power plus control status and reports of internal amplifier status. Special features include a gain control, internal/external automatic level control (ALC) with front panel control of the ALC threshold, pulse input capability and RF output level protection. Also included is an internal RF detector which provides an output for use in self-testing or operational modes.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, and RS-232 hard wire and fiber optic. The buss interface connectors are located on the back panel and positive control of local or remote operation is assured by a keylock on the front panel of the amplifier.

High efficiency universal input, power factor corrected switching power supplies provides DC to all internal sub-assemblies.

Housed in a stylish, contemporary enclosure, the Model 1000A250 provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, particle accelerators, plasma generation, communications and use as a driver for higher power amplifiers.

## 1000A250 TYPICAL POWER OUTPUT



## SPECIFICATIONS Model 1000A250

RATED OUTPUT POWER		
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum	
POWER OUTPUT @ 1 dB COMPRESSION		
FREQUENCY RESPONSE		
GAIN (at maximum setting)	61 dB minimum	
FLATNESS	$\pm 3.5 \ dB \ maximum$ $\pm 0.8 \ dB \ with internal leveling$	
GAIN ADJUSTMENT (continuous range)	20 dB minimum	
INPUT IMPEDANCE	50 ohms, VSWR 1.5:1 maximum	
OUTPUT IMPEDANCE		
MISMATCH TOLERANCE		
MODULATION CAPABILITY		
HARMONIC DISTORTION		
THIRD ORDER INTERCEPT POINT		
RF POWER DISPLAY	0 - 2000 watts full scale	
PULSE MODE GATING CHARACTERISTICS Signal (into 50 ohms) Rise Time Fall Time		
RF RISE/FALL TIME	10 nanoseconds maximum	
PRIMARY POWER		
Pulse Modulation Inputs  Detected RF Output  Remote Control  Remote Control (Fiber Optic)	See Model Configurations	
IEEE-488 (GPIB) INTERFACE & RS-232		
COOLING	Forced air (self contained fans)	
WEIGHT (maximum)		
SIZE (W x H x D)		
	MODEL CONFIGURATIONS	

Model Number	RF Input	RF Output
1000A250	N female, rear panel	7-16 DIN female rear panel
1000A250M1	N female, front panel	7-16 DIN female front panel