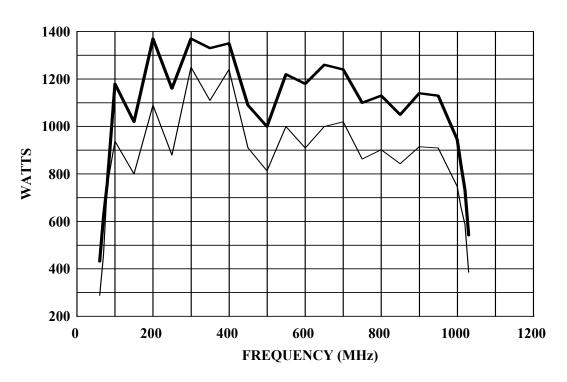
The Model 1000W1000C is a self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth and high gain are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 1000W1000C, when used with an RF sweep generator, will provide a minimum of 1000 watts of swept power.

The Model 1000W1000C is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a digital 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 that 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 hardware, and fiber optic. The buss interface connector is 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.

The 1000W1000C is housed in a single equipment rack and is designed to provide complete stand-alone performance for RF testing. It is also configured to be used as a sub-amplifier in a 2000-watt, 3000-watt or 4000-watt higher power amplifier. It can be added to in an incremental fashion to become a part of these higher power units yet still be used as a stand-alone 1000 watt amplifier.

## 1000W1000C TYPICAL POWER OUTPUT



SPECIFICATIONS			
1000W1000C	M1.	M2	

	1000W1000C, M1, M2
RATED OUTPUT POWER	1000 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3 dB compression Nominal Minimum	
POWER OUTPUT @ 1 dB compression Nominal Minimum	
FLATNESS	$\pm 2.0~dB$ $\pm 0.8~dB$ with internal leveling
FREQUENCY RESPONSE	80 - 1000 MHz instantaneously
GAIN (at maximum setting)	60 dB minimum
GAIN ADJUSTMENT (continuous range)	18 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1 typical maximum
MISMATCH TOLERANCE*	100% of rated power without foldback up to 6.0:1 mismatch above which may limit to 500 watts reflected power. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
MODULATION CAPABILITY	Faithfully reproduces AM, FM, or Pulse modulation appearing on input signal.
HARMONIC DISTORTION	Minus 20 dBc maximum at 800 watts
THIRD ORDER INTERCEPT POINT	66 dBm typical
RF POWER METER	0 - 1200 watts full scale
PRIMARY POWER (specify voltage)	200 - 240 VAC, Delta Connected (4 wire) 360-435 VAC, Wye Connected (5 wire) 50/60 Hz, 3 phase 12kVA Maximum
RF OutputExternal Leveling InputsPulse Modulation InputDetected RF Output	Type BNC female on front panelType BNC female on front panelType BNC female on front panel24 Pin female IEEE-488 (GPIB) and RS-232 connector on rear panelST Conn Tx and Rx RS-23215 pin Subminiature D on rear panel
COOLING	Forced air (self contained fans) see Model Configurations
WEIGHT (approximate)	
SIZE (W x H x D)	68.8 x 152.5 x 82.5 cm 27.1 x 60.0 x 32.5 in
*See Application Note #27	
	ALODER CONTROL MICONO

## MODEL CONFIGURATIONS

Model Number	RF Input connectors	RF Output connectors	Cooling Air	
1000W1000C	Rear panel	Type 7/16 female on rear panel	Enters front and bottom	
1000W1000CM1	00W1000CM1 Features of 1000W1000CM1 incorporated into standard design.			
1000W1000CM2	Same as 1000W1000C, but gain is max @ turn-on.			