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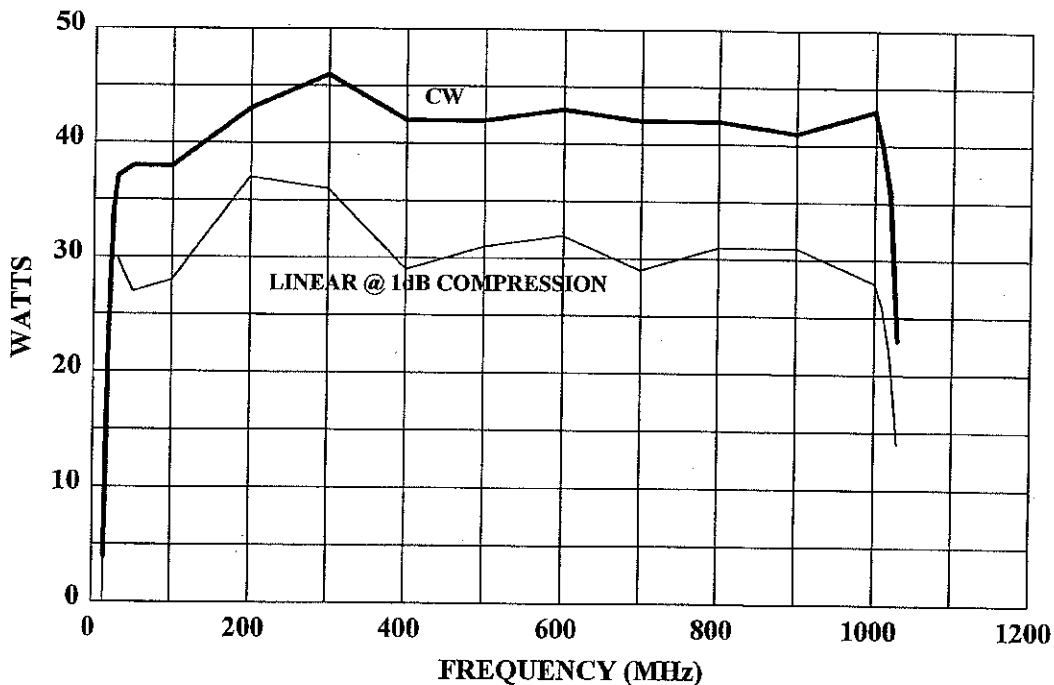
MODEL 30W1000M7
30 WATTS CW
25-1000 MHz

The Model 30W1000M7 is a portable, 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 30W1000M7, when used with an RF generator, will provide a minimum of 30 watts of CW power.

Special features incorporated into the Model 30W1000M7 include a front panel gain control, which permits the operator to conveniently set the desired power output level. Annoying amplifier shutdowns due to overdrive are eliminated by protecting the RF input stage with an automatic leveling circuit and limiting diodes. Provisions are included for the remote control of the basic operating functions of the amplifier. Computer control can be accomplished using our CP2001 or CP3000 accessories.

Housed in a stylish, contemporary bench top enclosure, the Model 30W1000M7 provides readily available RF power for typical applications such as RF susceptibility testing, antenna and component testing, watt meter calibration, and as a driver for frequency multipliers and higher power amplifiers.

30W1000M7 TYPICAL POWER OUTPUT



SPECIFICATIONS

Model 30W1000M7

POWER OUTPUT, CW	
Minimum.....	30 watts
Linear @ 1dB Compression.....	25 watts minimum
FLATNESS	±1.5 dB maximum ±1.0 dB typical
FREQUENCY RESPONSE	25-1000 MHz instantaneously
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
GAIN (at maximum setting)	45 dB minimum
GAIN ADJUSTMENT (continuous range)	10 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, VSWR 2.0:1, typical
MISMATCH TOLERANCE*	100% of 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	Minus 20 dBc maximum at 25 watts
THIRD ORDER INTERCEPT POINT	52 dBm typical
PRIMARY POWER (selected automatically)	90-132, 180-264 VAC 50/60 Hz 400 watts maximum
CONNECTORS	
RF input.....	Type N female on front panel
RF output.....	Type N female on front panel
Remote control.....	25 pin female Subminiature D on rear panel
COOLING	Forced air (self contained fans)
WEIGHT	16.0 kg (35 lb)
SIZE (WxHxD)	50.3 x 15.5 x 30.0 cm 19.8 x 6.1 x 11.8 in

* See Application Note #27