



AMPLIFIER RESEARCH

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MODEL 100A100
100 WATTS CW
10 kHz - 100 MHz

The Model 100A100 is a self-contained, broadband amplifier designed for laboratory applications that require instantaneous bandwidth, high gain and moderate power output. Using newly developed broadband transformer techniques the Model 100A100 provides its full rated output of linear power over four decades of bandwidth. The latest in FET technology allows operation into any load impedance without damage.

SPECIFICATIONS Model 100A100

POWER OUTPUT, CW LINEAR	100 watts minimum at less than 1.0 dB gain compression
POWER OUTPUT, CW SATURATED	150 watts minimum
FLATNESS	± 1.5 dB maximum
FREQUENCY RESPONSE	10 kHz - 100 MHz instantaneously
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
GAIN (at maximum setting)	32 dB minimum
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	Will operate without damage, or excitation with any magnitude and phase of source and load impedance. May shut down at 50 watts with shorted output terminals
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
NOISE FIGURE (above 1.0 MHz)	6 dB typical
HARMONIC DISTORTION	Minus 20 dBc maximum at 100 watts
THIRD ORDER INTERCEPT POINT	58 dBm typical
PRIMARY POWER	100/110/120/200/208/220/240 ± 5% VAC
<i>(input via internal taps)</i>	50/60 Hz, single phase 1000 watts maximum
CONNECTORS	
RF input.....	Type BNC female
RF output.....	Type N female
COOLING	Forced air (self contained fans)
WEIGHT, maximum	43.0 kg (95.0 lb)
SIZE (WxHxD)	50.3 x 29.3 x 46.0 cm 19.8 x 11.5 x 18.1 in

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE REV0493