

# AMPLIFIER RESEARCH 50W1000

## Broadband Power Amplifier

### 1 to 1000 MHz, 50 Watts

#### SPECIFICATIONS:

RATED OUTPUT POWER	50 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 1dB COMPRESSION Nominal Minimum	55 watts 40 watts
FLATNESS	$\pm 1.5$ dB typical, $\pm 2.0$ dB maximum
FREQUENCY RESPONSE	1-1000 MHz (instantaneous)
GAIN	47 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms, nominal
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 50 watts
THIRD ORDER INTERCEPT POINT	57 dBm typical
PRIMARY POWER	90-132, 180-264 VAC 50/60 Hz, single phase 600 watts maximum
CONNECTORS RF	Type N female
REMOTE CONTROL	IEEE-488
COOLING	Forced air (self contained fans)
PHYSICAL DIMENSIONS	50.3 x 20.3 x 45.7 cm 19.8 x 8.0 x 18.1 in
WEIGHT	25.9 kg (57.0 lb)