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TECHNOLOGY GROUP

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Custom engineering
so your equipment works exactly as you specify.

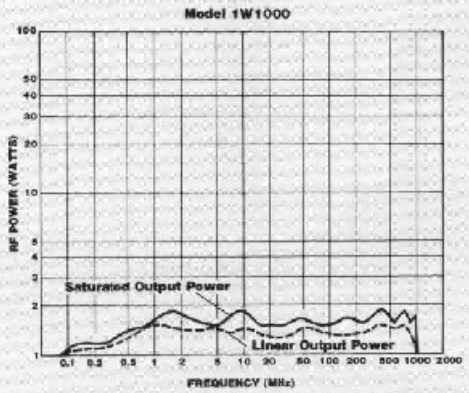
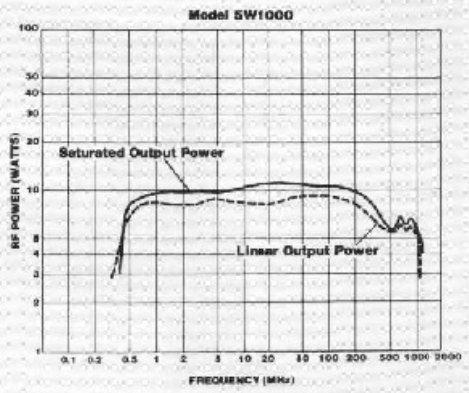
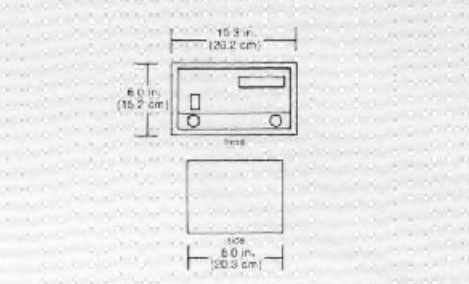
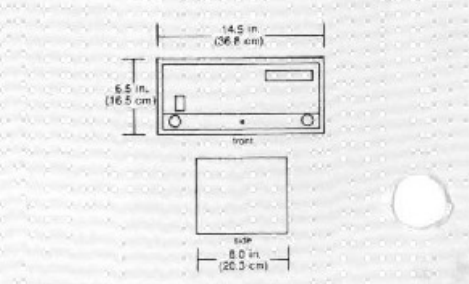
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- In stock / Ready-to-ship
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Find the *Amplifier Research 5W1000* at our website: ***Click HERE***

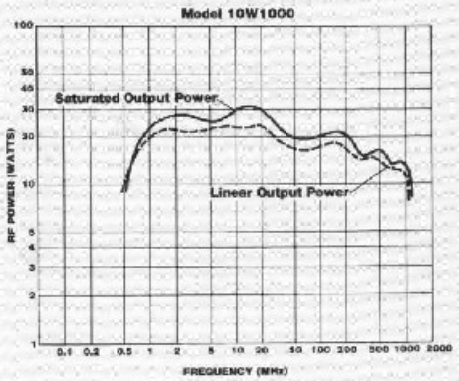
Specifications

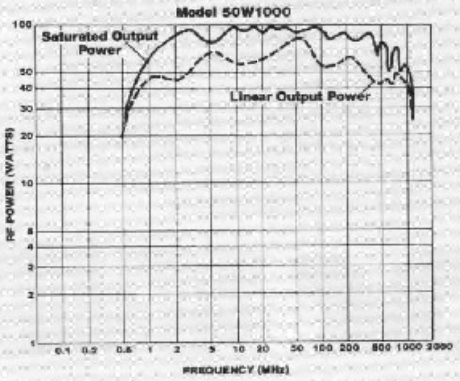
	1W1000	5W1000
Power output, cw up to minimum	2 watts 1 watt	9 watts 5 watts
Power output, cw linear (less than 1 dB compression into 50 ohms)	1 watt minimum	5 watts minimum
Flatness	±1.0 dB maximum; ±0.5 dB typical	±1.5 dB maximum; ±1.0 dB typical
Frequency response (instantaneous)	100 kHz to 1000 MHz	500 kHz to 1000 MHz
Input for rated output	1.0 milliwatt max.	1.0 milliwatt max.
Power gain	30 dB minimum	37 dB minimum
Input impedance	50 ohms; VSWR 2.0:1 max.	50 ohms; VSWR 2.0:1 max.
Output impedance	50 ohms; VSWR 2.5:1 max.	50 ohms nominal
Mismatch tolerance (ability to operate without damage, foldback, or oscillation with any magnitude and phase of source and load impedance)	100%	100%
Modulation capability (ability to reproduce faithfully AM, FM, or pulse modulation appearing on input signal)	100%	100%
Noise Figure	8 dB typical	10 dB typical
Harmonic distortion	Minus 20 dBc max. at 1 watt.	Minus 20 dBc max. at 5 watts.
Third-order intercept point	42 dBm typical	48 dBm typical
Primary power (select via internal taps)	100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 50 W max.	100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 110 W max.
RF Connectors	Type N female	Type N female
Cooling	Forced air (self-contained fans)	Forced air (self-contained fans)
Weight	4.1 kg (9.0 lb)	9.1 kg (20.0 lb)
Typical Power Curves		
Dimensions Models 1W1000 and 5W1000 are available as OEM rf circuit modules without power supply. Contact Amplifier Research for further information.		

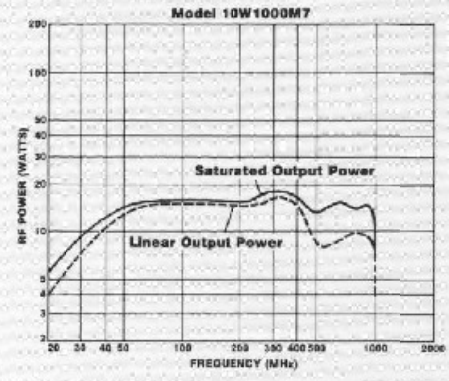
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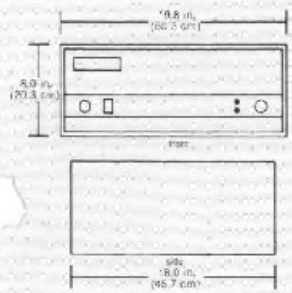
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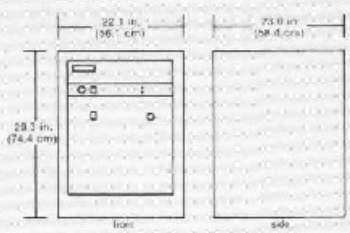
10W1000	50W1000	10W1000M7
22 watts 10 watts	100 watts 50 watts	15 watts 10 watts
10 watts minimum	40 watts minimum	8 watts minimum
±1.5 dB maximum; ±1.0 dB typical	±2.0 dB maximum; ±1.5 dB typical	±1.5 dB maximum; ±1.0 dB typical
1 to 1000 MHz	1 to 1000 MHz	100 to 1000 MHz
1.0 milliwatt max.	1.0 milliwatt max.	1.0 milliwatt max.
40 dB minimum	47 dB minimum	40 dB minimum
50 ohms; VSWR 2.0:1 max.	50 ohms; VSWR 2.0:1 max.	50 ohms; VSWR 2.0:1 max.
50 ohms nominal	50 ohms nominal	50 ohms nominal
100%	100%	100%
100%	100%	100%
noise floor data on request	noise floor data on request	noise floor data on request
Minus 20 dBc max. at 10 watts	Minus 20 dBc max. at 40 watts	Minus 20 dBc max. at 8 watts
50 dBm typical	58 dBm typical	49 dBm typical
100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 400 W max.	100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 1900 W max.	100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 150 W max.
Type N female	Type N female	Type N female
Forced air (self-contained fans)	Forced air (self-contained fans)	Forced air (self-contained fans)
28.4 kg (63.0 lb)	98.0 kg (215.0 lb)	9.1 kg (20 lb)

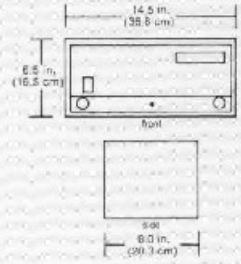




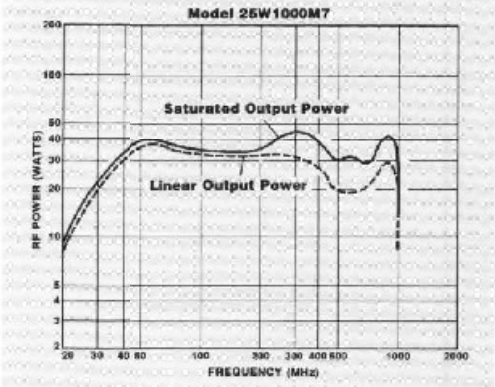
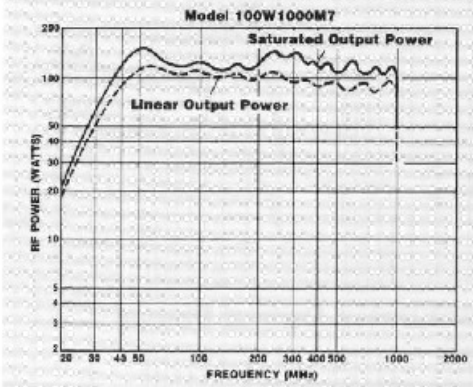
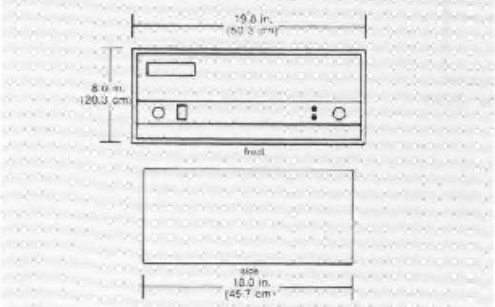
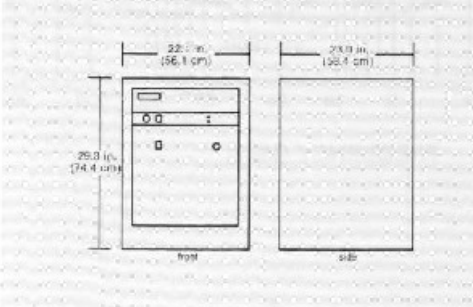








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25W1000M7	100W1000M7	
40 watts 25 watts	180 watts 100 watts	**Power output, cw** up to minimum
20 watts minimum	70 watts minimum	**Power output, cw, linear** (less than 1 dB compression into 50 ohms)
±1.5 dB maximum; ±1.0 dB typical	±2.0 dB maximum; ±1.5 dB typical	**Flatness**
100 to 1000 MHz	100 to 1000 MHz	**Frequency response** (instantaneous)
1.0 milliwatt max.	1.0 milliwatt max.	**Input for rated output**
45 dB minimum	50 dB minimum	**Power gain**
50 ohms; VSWR 2.0:1 max.	50 ohms; VSWR 2.0:1 max.	**Input impedance**
50 ohms nominal	50 ohms nominal	**Output impedance**
100%	100%	**Mismatch tolerance** (ability to operate without damage, foldback, or oscillation with any magnitude and phase of source and load impedance)
100%	100%	**Modulation capability** (ability to reproduce faithfully AM, FM, or pulse modulation appearing on input signal)
noise floor data on request	noise floor data on request	**Noise Figure**
Minus 20 dBc max. at 20 watts	Minus 20 dBc max. at 70 watts	**Harmonic distortion**
52 dBm typical	60 dBm typical	**Third-order intercept point**
100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 750 W max.	100/110/120/200/208/220/ 240 Vac ±5%, 50/60 Hz, single-phase, 3000 W max.	**Primary power** (select via internal taps)
Type N female	Type N female	**RF Connectors**
Forced air (self-contained fans)	Forced air (self-contained fans)	**Cooling**
28.4 kg (63.0 lb)	98.0 kg (215.0 lb)	**Weight**
		**Typical Power Curves**
		**Dimensions** Models 1W1000 and 5W1000 are available as OEM rf circuit modules without power supply. Contact Amplifier Research for further information.

Specifications subject to change without notice

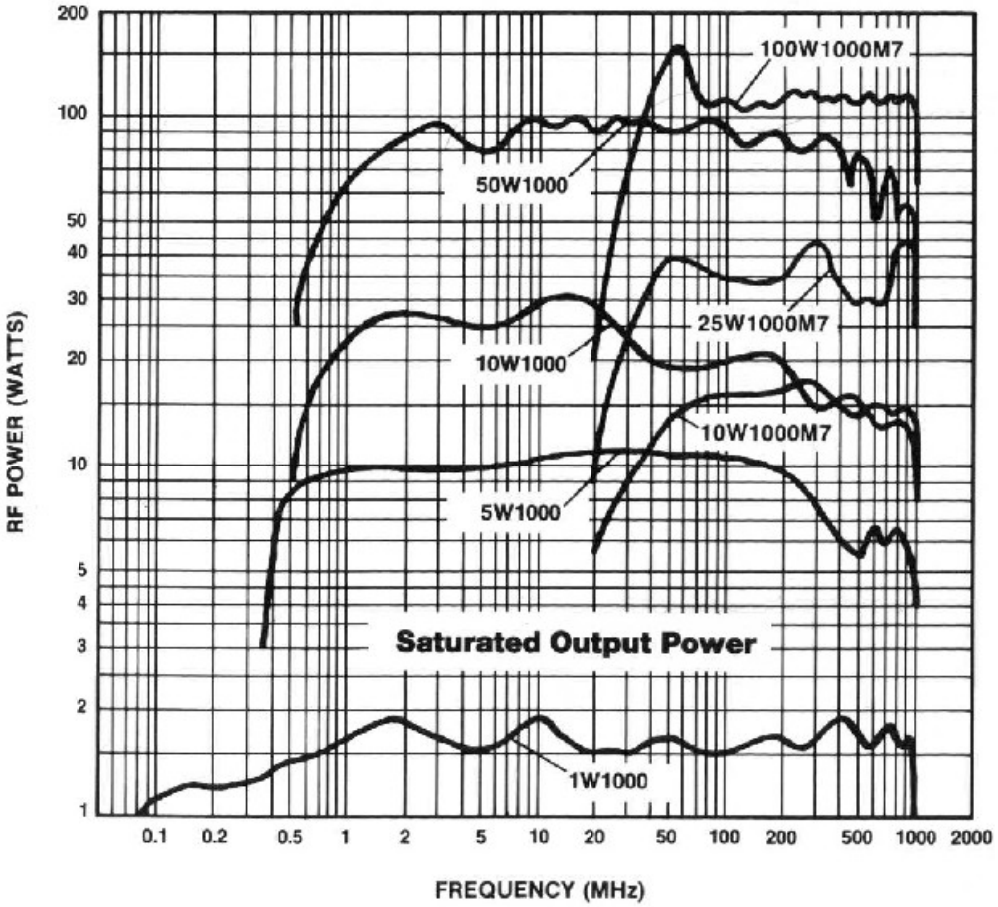
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1 watt to 100 watts.
100 kHz to 1 GHz.

The Amplifier Research "W" Series constitutes a complete family of self-contained ultra-broadband solid-state amplifiers providing linear operation over the spectrum from 100 kHz to 1000 MHz. The amplifiers are conservatively rated at 1, 5, 10, 25, 50, and 100 watts, and feature instantaneous bandwidth, flat output, and immunity to even worstcase load mismatch including shorted or open cable without damage or system shutdown.

Applications

- ☐ Sweep, cw, and pulse rf and emi susceptibility testing without bandswitching or tuning
- ☐ Antenna and component testing, and equipment calibration
- ☐ General laboratory instrumentation



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