





仪器型号: AR功率放大器250w1000c

西安安泰测试科技有限公司 仪器维修|租赁|销售|测试

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250W1000C

- 250 watts CW
- 80MHz-1000MHz
- Class A
- Portable
- Full VSWR-tolerant
- CE & RoHS Compliant
- High Efficiency

Features

The Model 250W1000C is a solid-state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Available in a stylish, contemporary cabinet for benchtop use or with cabinet removed for rack mounting.

The Model 250W1000C, when used with a sweep generator, will provide a minimum of 250 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 250W1000C is protected from RF input overdrive by an RF input

leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above OdBm. The RF amplifier stages are protected from

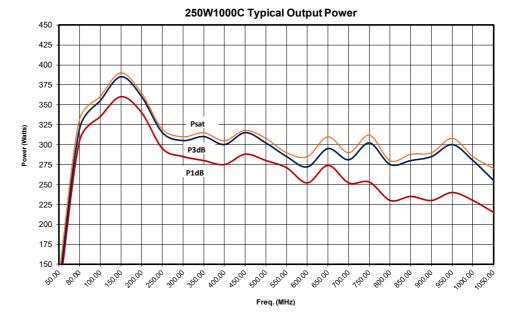
over-temperature by removing the DC voltage to them if an over-temperature condition occurs due to cooling blockage or fan failure. The Model 250W1000C is equipped with a Digital Control Panel (DCP) which provides both local and remote

control of the amplifier. The DCP uses a color LCD touch screen display to indicate the operate status and fault conditions if an over-temperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared

All amplifier control functions and status indications are available remotely through the included Remotes Package. The Remotes Package includes GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a Local/Remote switch on the front panel of the amplifier. Also included with the Remotes Package is a safety interlock circuit for use with external safety switch interlocks. This circuit prevents the amplifier from going into operate mode unless the external connection is made. A jumper plug is provided for cases where this functionality is not needed.

The export classification for this equipment is EAR99.





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For an applications engineer call:800.933.8181

www.arworld.us

ISO 9001 Certified



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Specifications

RATED OUTPUT POWER: 300 watts typical, 250 watts minimum

INPUT FOR RATED OUTPUT: 1.0 mW Max

POWER OUTPUT @ 3dB COMPRESSION:

Typical: 300 watts, Minimum: 275 watts up to 500 MHz;

250 watts 500-1000MHz

POWER OUTPUT @ 1dB COMPRESSION:

Typical: 250 watts, Minimum: 225 watts up to 500 MHz;

200 watts 500-1000MHz

FLATNESS: ±1.5 dB typical, ±2.0 dB maximum

FREQUENCY RESPONSE: 80MHz-1000 MHz instantaneous-

GAIN (at maximum setting): 54 dB minimum

GAIN ADJUSTMENT (Continuous Range) : 20 dB mini-

INPUT IMPEDANCE: 50 ohms, VSWR 1.5:1 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. See Application Note #27.

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or Pulse modulation appearing on input signal.

THIRD ORDER INTERCEPT: 62 dBm typical NOISE FIGURE: 8 dB maximum; 6 dB typical

HARMONIC DISTORTION: Minus 20 dBc maximum at 200

watts; minus 30 dBc typical at 200 watts

SPURIOUS: Minus 73 dBc typical

PRIMARY POWER: 100-240 VAC, 50/60Hz, 1000 watts

CONNECTORS: RF Input: N female RF Output: N female

REMOTES PACKAGE:

IEEE-488: 24-pin female

RS-232: 9-pin subminiature D (female) ST Conn Tx and Rx RS-232 Fiber optic:

USB 2.0: Type B Ethernet: **RJ-45**

Safety Interlock: 15-pin subminiature D **COOLING:** Forced air (self contained fans)

WEIGHT:

With Cabinet 42.6 kg (94 lbs) Without Cabinet 31.3 kg (69 lbs)

SIZE (W x H x D):

With cabinet: 50.3 x 20.5 x 74.9 cm (19.8 x 8.1 x 29.5 in) Without Cabinet: 48.3 x 17.7 x 74.9 cm (19 x 7.0 x 29.5 in)

ENVIRONMENTAL:

Operating Temperature: 5°C / +40°C Operating Altitude: Up to 2000M

Shock and vibration: Normal Truck Transport

REGULATORY COMPLIANCE:

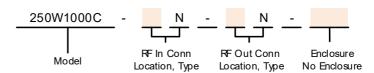
EMC EN 61326-1 UL 61010-1 Safety

CAN/CSA C22.2 #61010-1

CENELEC EN 61010-1 DIRECTIVE 2011/65/EU RoHS

EXPORT CLASSIFICATION: EAR99

Ordering Options



CONNECTO RLO CATION		ENCLO SURE	
Front	F	Enclosure	E
Rear	R	No Enclosure	NE

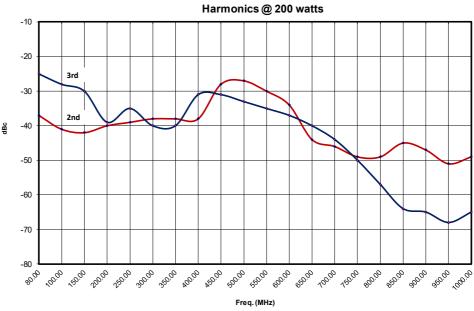
Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.

Graphs

250W1000C

- 250 watts CW
- 80MHz-1000MHz

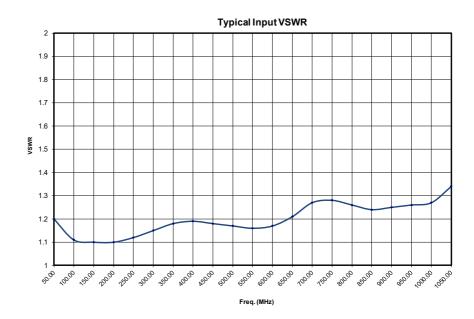


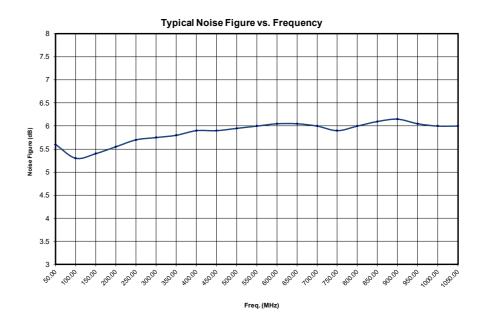


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Envelope Drawing

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250W1000C

- 250 watts CW80MHz-1000N
- 80MHz-1000MHz

