





仪器型号: AR功率放大器150a100d

西安安泰测试科技有限公司 仪器维修|租赁|销售|测试

地址:西安市高新区纬二十六路 369 号

网址: www.agitekservice.com

电话: 400-876-5512

座机: 029-88827159



# 150A100D

- 150 Watts CW
- 10kHz-100MHz
- Class A
- Portable
- Full VSWRtolerant
- CE & RoHS compliant
- High Efficiency

#### **Features**

The Model 150A100D is a solid-state, selfcontained, 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 150A100D, when used with a sweep generator, will provide a minimum of 150 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 150A100D is protected from RF input overdrive by an RF input leveling circuit which con-

> trols 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 re-

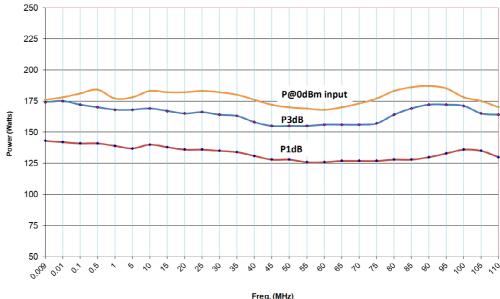
moving the DC voltage to them if an overtemperature condition occurs due to cooling blockage or fan failure. The front panel indicates the operate status and fault conditions if an over-temperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared.

All amplifier control functions and status indications are available remotely through the optional 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.



150A100D Typical Output Power



AR RF/Microwave Instrumentation 160 School House Rd Souderton, PA 18964 215-723-8181

For an applications engineer call:800.933.8181

www.arworld.us

ISO 9001 Certified

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#### **Specifications**

RATED OUTPUT POWER: 180 watts typical, 150 watts minimum

INPUT FOR RATED OUTPUT: 1.0 mW Max POWER OUTPUT @ 3dB COMPRESSION: Typical: 165 watts, Minimum: 140 watts

POWER OUTPUT @ 1dB COMPRESSION: Typical: 135 watts, Minimum: 110 watts

**FLATNESS:**  $\pm 1.0$  dB typical,  $\pm 1.5$  dB maximum

FREQUENCY RESPONSE: 10kHz-100 MHz instantane-

GAIN (at maximum setting): 51.8 dB minimum

GAIN ADJUSTMENT (Continuous Range): 20 dB mini-

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. See Application Note #27.

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or Pulse modulation appearing on input sig-

THIRD ORDER INTERCEPT: 55 dBm typical

NOISE FIGURE: 9 dB typical

HARMONIC DISTORTION: Minus 20 dBc maximum at

100 watts, -30 dBc typical at 70 watts SPURIOUS: Minus 73 dBc typical

100-240 VAC, 50/60Hz, 500 watts

PRIMARY POWER (Universal; selected automatically):

**CONNECTORS:** 

RF Input: N female RF Output: N female

**REMOTES PACKAGE:** 

IEEE-488: 24-pin female

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

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

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

WEIGHT:

18.5 kg (41 lbs) With Cabinet Without Cabinet 10.4 kg (23 lbs)

SIZE (W x H x D):

With cabinet: 50.3 x 15.5 x 55.1 cm (19.8 x 6.1 x

21.7 in)

Without Cabinet: 48.3 x 13.2 x 55.1 cm (19 x 5.2 x

21.7 in)

**ENVIRONMENTAL:** 

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

Shock and vibration: Normal Truck Transport

**REGULATORY COMPLIANCE:** 

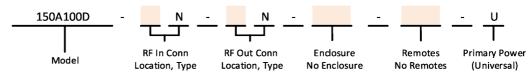
**EMC** EN 61326-1 Safety UL 61010-1

CAN/CSA C22.2 #61010-1

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

**EXPORT CLASSIFICATION: EAR99** 

# **Ordering Options**



CONNECTOR LOCATION		ENCLOSURE		REMOTES PKG	
Front	F	Enclosure	E	Remotes	R
Rear	R	No Enclosure	NE	No Remotes	NR

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

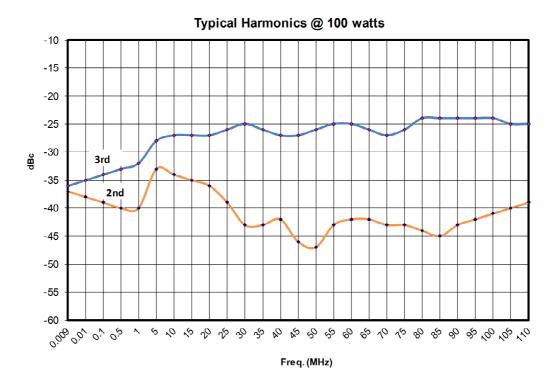
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#### Graphs

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- 150 Watts CW
- 10kHz-100MHz



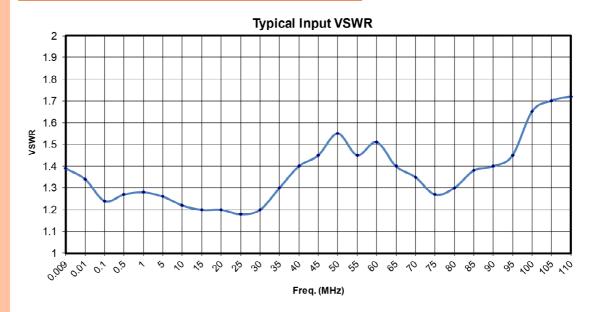


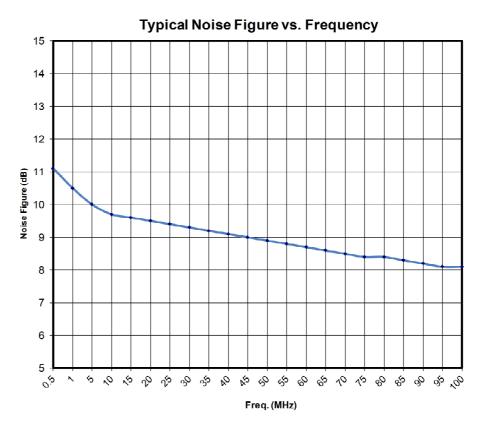
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#### **Envelope Drawing**

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