





	250S1G2z5B	
仪器型号:		

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 电话: 400-876-5512

网址: <u>www.agitekservice.com</u> 座机: 029-88827159



- 250 watts CW
- 1.0GHz-2.5GHz
- Class A
- Portable
- Full VSWRtolerant
- CE & RoHS Compliant
- High Efficiency

## **Features**

The Model 250S1G2z5B 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 250S1G2z5B, 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 250S1G2z5B 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 0dBm. The RF amplifier stages are protected from

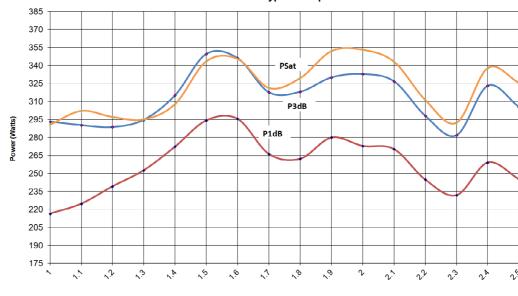
over-temperature by removing the DC voltage to them if an over-temperature condition occurs due to cooling blockage or fan failure. The Model 250S1G2z5B is equipped with a Digital Control Panel (DCP) which provides

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.

#### 250S1G2z5B Typical Output Power



Freq. (GHz)

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



- 250 watts CW
- 1.0GHz-2.5GHz

### **Specifications**

**RATED OUTPUT POWER:** 300 watts typical, 250 watts minimum

INPUT FOR RATED OUTPUT: 1.0 mW Max POWER OUTPUT @ 3dB COMPRESSION: Typical: 275 watts, Minimum: 250 watts

POWER OUTPUT @ 1dB COMPRESSION: Typical: 225 watts, Minimum: 200 watts

**FLATNESS:** ±1.5 dB typical, ±2.0 dB maximum **FREQUENCY RESPONSE:** 1.0 GHz-2.5 GHz instanta-

neously

GAIN (at maximum setting): 56 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 signal

THIRD ORDER INTERCEPT: 62 dBm typical NOISE FIGURE: 12 dB maximum; 10 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, 1200

wans

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

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  $(W \times H \times D)$ :

With cabinet: 50.3 x 20.5 x 74.9 cm (19.8 x 8.1 x

29.5 in)

Without Cabinet:  $48.3 \times 17.7 \times 74.9 \text{ cm}$  (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:** 

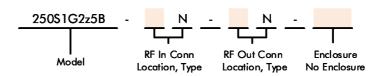
EMC EN 61326-1 Safety UL 61010-1

CAN/CSA C22.2 #61010-1 CENELEC EN 61010-1

Rohs DIRECTIVE 2011/65/EU

EXPORT CLASSIFICATION: EAR99

#### **Ordering Options**

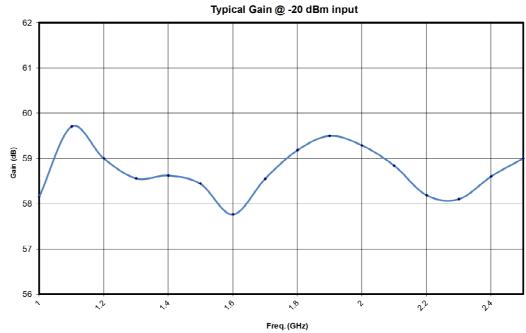


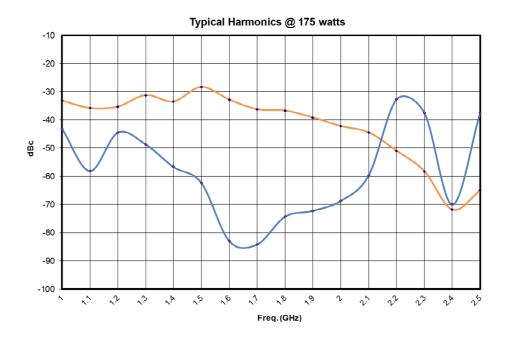
CONNECTOR LOCATION		ENCLOSURE	
Front	F	Enclosure	Е
Rear	R	No Enclosure	NE

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

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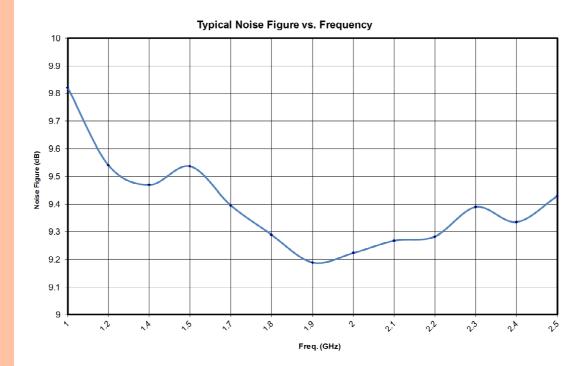
# Graphs

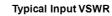


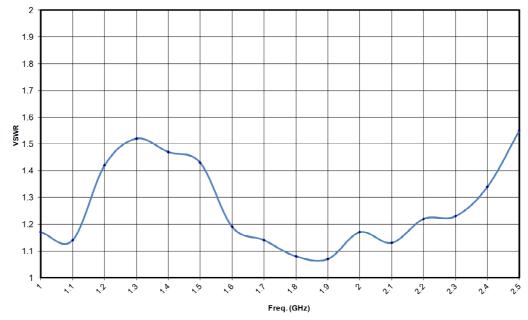


- 250 watts CW 1.0GHz-2.5GHz

## Graphs







## **Envelope Drawing**

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