



产品手册

仪器型号: AR放大器130T18G26z5B

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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130T18G26z5B

- M1-M7
- 130 Watts CW
- 18GHz-26.5GHz

Features

The Model 130T18G26z5B is a self contained, forced air cooled, broadband traveling wave tube (TWT) microwave amplifier designed for applications where wide instantaneous bandwidth, high gain and moderate power output are required. A reliable TWT provides a conservative 130 watts minimum at the amplifier output connector. Stated power specifications are at the fundamental frequency.

The amplifier's front panel digital display shows forward and reflected output plus extensive system status information accessed through a series of menus via soft keys. Status indicators include power on, warm-up, standby, operate, faults, excess reflected power warning and remote. Standard features include a built-in IEEE-488 (GPIB) interface, OdBm input, VSWR protection, gain control, forward and reflected RF output sample port, auto sleep, plus monitoring of TWT helix current, cathode voltage, collector voltage, heater current, heater voltage, baseplate temperature and cabinet temperature. Modular design of

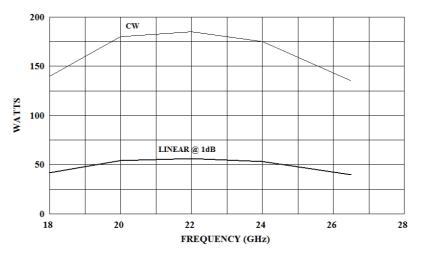
the power supply and RF components allow for easy access and repair. Use of a switching mode power supply results in significant weight reduction.

Housed in a stylish contemporary cabinet, the unit is designed for benchtop use but can be removed from the cabinet for rack mounting. The Model 130T18G26z5B provides readily available RF power for a variety of applications in Test and Measurement, (including EMC RF susceptibility testing), Industrial and University Research and Development, and Service applications. This sub-octave amplifier features moderate harmonic content.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

See Model Configurations for alternative packaging and special features.

130T18G26z5B TYPICAL POWER OUTPUT



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Page 2

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POWER (fundamental), CW, @ OUTPUT

CONNECTOR: Nominal, 150 watts; Minimum, 130 watts; Linear @ 1 dB Compression, 30 watts minimum

FLATNESS: ± 9 dB maximum

Specifications

FREQUENCY RESPONSE: 18-26.5 GHz instantaneously

INPUT FOR RATED OUTPUT: 1.0 milliwatt maximum

GAIN (at maximum setting): 52 dB minimum

GAIN ADJUSTMENT (continuous range): 35 dB mini-

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE: 50 ohms, VSWR 2.5:1 maxi-

MISMATCH TOLERANCE: Output power foldback protection at reflected power exceeding 20 watts. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. May oscillate with unshielded open due to coupling to input. Should not be tested with connector off.

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal. AM peak envelope power limited to specified power.

NOISE POWER DENSITY: Minus 70 dBm/Hz (maximum); Minus 75 dBm/Hz (typical)

HARMONIC DISTORTION: Minus 15 dBc maximum;

Minus 20 dBc typical

PRIMARY POWER: 190-260 VAC, 50/60 Hz single phase, 0.8 kVA maximum

CONNECTORS:

RF input: Type K female, rear panel RF output: Type WR-42 waveguide

flange, rear panel

RF output sample ports: Type K female, rear panel GPIB: IEEE-488, rear panel Interlock: DB-15 female, rear panel

COOLING: Forced air (self contained fans), air entry

and exit in rear

TEMPERATURE: 0 to 45°C operating

HUMIDITY: Up to 95% (without condensation)

WEIGHT (approximate): 36 kg, 80 lbs

SIZE (W x H x D): 50.3 x 16.5 x 68.6 cm, 19.8 x 6.5 x

EXPORT CLASSIFICATION: EAR99

Model Configurations

Package Alternatives. May select an alternative from the following [E1C or (E1C and E2S) and/or

E1C Cabinet: Without outer enclosure, size 49 x 14.6 (3U) x 68.6 cm, 19 x 5.75 (3U) x 27 in., Subtract approximately 6 kg, 15 lbs, for removal of outer enclosure.

Slides: slides installed, add approximately 5 lbs,

E3H Handles: Front handles installed.

May select a special feature (extra cost) from the following [S1V]:

Video Pulse Capability to offer blanking for use for noise quieting.

S1V, Video Pulse Capability

Pulse Width: 0.1 microseconds min Pulse Rate (PRF): 10 kHz max

Duty Cycle: Some restrictions apply. Contact AR with

application requirements.

RF Rise and Fall: 100 ns max (10% to 90%) Delay: 350 ns max from pulse input to RF90% Pulse width distortion: ± 150 ns max (50% points of output pulse width compared to 50% points of input pulse width)

Noise Power Density, (pulse off): Minus 140 dBm/Hz

Pulse Off Isolation: 80 dB minimum, 90 dB typical Pulse Input: TTL Level, 50 Ohm nominal termination, high level enables RF when video pulsing mode is

Connector, Video: BNC female, rear panel

	Features	
	E	S
Model Number		
130T18G26z5B	Base model	-
M1	E1C	-
M2	E3H	-
M3	E1C & E3H	-
M4	E1C & E2S	-
M5	E1C & E2S &	_
	E3H	
M6	_	S1V
M7	E1C & E2S &	S1V
	E3H	

Model number example: Model 30T18G26z5BM2 would have option E3H front handles installed.