

Function Generators

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RF Signal Generator - Model 2005B

TRANSCAT®

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- 100 kHz to 150 MHz on six bands
- Output to 450 MHz on harmonics
- AM modulation, internal or external
- Frequency monitor output for external frequency counter
- Step and variable attenuation

Accessories

SUPPLIED: BNC to Insulated Clip Output Cable, Detachable Power Cord, Instruction Manual.

Function Generators

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Model 2005B | Model 3001 | Specifications

Specifications - Model 2005B

MAIN OUTPUT

Frequency Range: 100 kHz to 150 MHz (up to 450 MHz on harmonics).

- A) 100 kHz-290 kHz
- B) 290 kHz-900 kHz
- C) 0.9 MHz-3 MHz.
- D) 3 MHz-11 MHz.
- E) 10 MHz-35 MHz
- F) 32 MHz-150MHz

(6-450 MHz on harmonics). Dial Accuracy: +3%.

RF Output Level: Continuously variable. Step attenuation provides approximate-ly 20 dB of attenuation.

Maximum Output: Approximately 100 mV rms to 35 MHz.

Continuously variable in hi or to step, at least 20 dB range of adjustment.

FREQUENCY MONITOR OUTPUT

Frequency: 100 kHz to 150 MHz.

Level: 50 mV rms min. fixed, unmodulated signal.

AMPLITUDE MODULATION

Internal: Frequency 1 kHz; level continuously variable. Modulation signal available at front panel lack; fixed 1V rms (min) into approx. 10kV

External: Frequency 50 Hz to 20 kHz;

Sensitivity: Approximately 100 mV rms.

POWER SOURCE 120/220/240V +10%, 50/60 Hz.

GENERAL

Dimensions (HxWxD): 6.75 x 9.75 x 6.5" (171 x 248 x 165 mm)

Weight: 2.5 kg (1.1 lb).

Specifications - Model 3001

Frequency Range: x1 range 20 Hz to 1.5 kHz (23 steps) x100 range 2kHz to 150kHz (23 steps)

Accuracy: 20 Hz through 100 kHz (+3% or less), 120 kHz and 150 kHz (+5% or less)

Output Control: 0dB/-20dB attenuator switch and variable amplitude control

Output impedance: approx. 600 Ω

SINEWAVE CHARACTERISTICS

Output Voltage: >1.2V rms at max. setting (no load)

Output Flatness: (Short term) 20 Hz to 150 kHz

+0.5dB (reference frequency 1 kHz). Distortion: 200 Hz-15kHz 0.5% (THD) or less, 50 Hz-28 kHz 0.1% (THD) or less, 20 Hz-100kHz 0.3% (THD) or less.

SQUARE WAVE CHARACTERISTICS

Output Voltage: > 5V p-p at maximum setting

Rise and Fall Time: Less than 0.5 microseconds

Sag: Less than 5% at 20 Hz (DC coupled)

Over Shoot: <2% from maximum output, to 50mV p-p

Duty Ratio: 50% +5%

SYNC OUTPUT CHARACTERISTICS

Output Voltage: >1.2V rms (no load)

Output Impedance: 1 kV +5%

Other specifications same as sinewave characteristics.

GENERAL INFORMATION

Operating Temperature: 0 C to +50 C; specifications

apply from 10 C to 30 C, <80% R.H. Storage

Temperature: -20 C to +60 C, w/o battery.

Power Requirements: 9V battery NEDA 1604A.

Battery Life: 35 hours typical with Alkaline.

Battery Indicator: LED indicates low battery

Dimensions (HxWxD): 15 x 8.2 x 2.1 cm (6 x 3.3 x 0.9")

Weight: 7 ounces (200 grams) including battery.