

SIGNAL SOURCE

FM-AM SIGNAL GENERATOR JSG-1050A

100 KHz ~ 110 MHz



The Model JSG-1050A is a standard signal generator that covers the frequency range, 100kHz to 110MHz, for AM and FM signals suitable for testing multiband radios and in CB, cordless telephone production line. Modulation can be selected to 0 to 60% at AM, and 0 to 99.5kHz at FM.

Frequency type of modulation and output levels can be preset, and remote control operation is also possible for all panel functions.

In addition, the carrier frequencies, modulation and output levels up to 100 points can be stored and recalled.

FEATURES

- All panel functions can be memorized and up to 100 points can be stored and recalled.
- Out level range is -20dB to $+100\text{dB}\mu$ with 3-digit readout and a 4-point memory function is included.
- Direct reading incremental frequency control (Δf function).
- 4-modulation range preset.
- 100KHz ~ 110 MHz band width.
- Carrier frequencies are locked with a crystal oscillator for high stability.
- Back-up battery retains memory contents when line power is cut off.
- Attached to the instruction card on the bottom of this instrument.

SPECIFICATION

Frequency

Range : 100 KHz ~ 110 MHz
 Display : 6 digit 7 segment
 Resolution : 100 Hz at below 35 MHz
 1 KHz at above 35 MHz
 Accuracy : $\pm 5 \times 10^{-5}$

Output

Range : -20 dB μ ~ 100 dB μ at open circuit
 Display : 3 digit 7 segment
 Resolution : 1 dB
 Accuracy : ± 1 dB at 100 dB μ
 Attenuator accuracy : ± 1.5 dB at 0 to 20 dB μ output
 ± 2.5 dB at below 0 dB μ output
 Output impedance : 50 Ω , VSWR less than 1.25
 Spurious : -30 dB or less
 Residual modulation : FM component: 75 dB or more
 (S/N) AM component: 50 dB or more

Modulation

Internal modulation frequency : 400 Hz or 1 KHz $\pm 3\%$
 External modulation input impedance : 10 K Ω

(FM)

Range : 0 ~ 99.5 KHz
 Resolution : 0.5 KHz Step
 Accuracy : $\pm 10\%$ of maximum value
 T.H.D. : less than 0.1% at 75 KHz deviation
 with 50 μ sec de-emphasis
 less than 0.05% at 76 to 108 MHz

External modulation bandwidth : 20 Hz to 100 KHz ± 1 dB

Separation for MPX stereo signal : 50 dB or more at 75 KHz deviation
 with 1 KHz signal

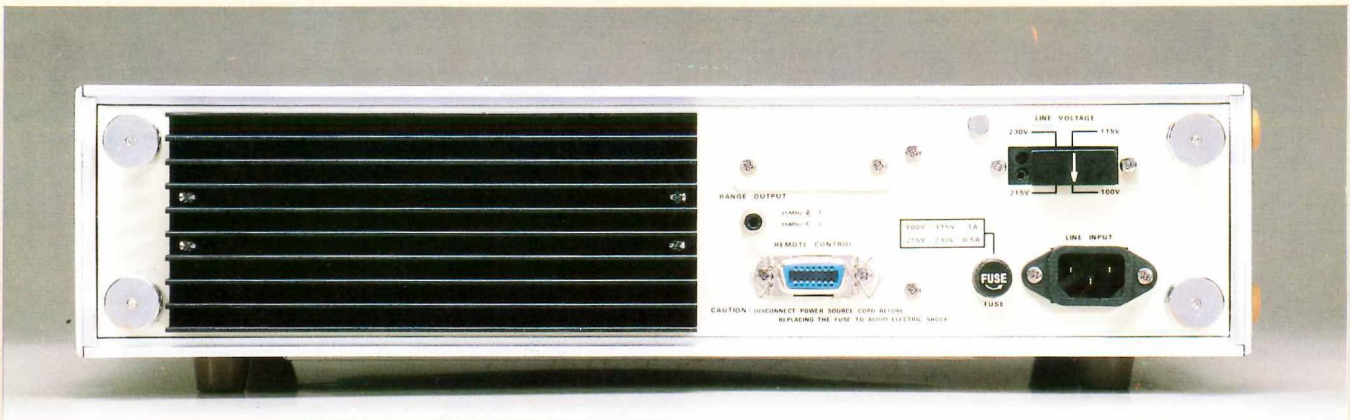
(AM)

Range : 0 ~ 60%
 Resolution : 0.5% Step
 Accuracy : $\pm 10\%$ of maximum value
 T.H.D. : less than 0.5% at below 30 MHz
 less than 1.5% at above 30 MHz
 with 30% AM

External modulation bandwidth : 20 Hz to 10 KHz ± 1 dB

Others

Power requirements : AC100, 115, 215, 230 V $\pm 10\%$
 50/60 Hz, Approx.30 VA
 Dimensions : 100(H) \times 420(W \times 360(D) mm
 Weight : Approx. 9 Kg
 Standard accessories : Output cable, Power code,
 Fuse (1A), Manual



Specifications are subject to change without notice.

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