

SIGNAL SOURCE

FM STEREO/FM-AM SIGNAL GENERATOR

JSG-1100B

(75 ~ 110 MHz, FM STEREO) 100 KHz ~ 110 MHz



The JSG-1100B is a versatile instrument, specially developed and designed to generate FM and AM signals as well as FM stereo signals used in the radio production line. The carrier frequency range covers 100 kHz to 110MHz and the FM stereo band, 75 to 110 MHz. PLL system is employed for high accuracy and stability in generation of the carrier frequencies. All operating functions are microprocessor-controlled and set values are displayed digitally.

FEATURES

- All panel functions can be stored and recalled up to 100 points.
- Carrier frequencies are able to be set to seven digits; high stability assured through use of the PLL system.
- ΔF (increment or decrement) setting possible for carrier frequencies.
- Keys provided for preset modulation levels, AM at 30% and FM at 3.5 KHz, 22.5 KHz, 75 KHz deviation.
- Stereo modulation can be set to 30% or 100% with preset keys.
- Touch type keys for quick and easy operation.
- Data retained upon power failure or power outage.
- Option: GP-IB interface, Remote controller, RF output adaptor.

SPECIFICATION

Frequency

Range : 100 KHz ~ 110 MHz
(75 ~ 110 MHz, FM stereo)
Resolution : 100 Hz at below 35 MHz
1 KHz above 35 MHz
Accuracy : $\pm 5 \times 10^{-5}$

Output

Range : -20 dB μ ~ 100 dB μ at open circuit
Resolution : 1 dB
Accuracy : ± 1 dB at 20 dB μ
Attenuator accuracy : ± 1.5 dB at 0 to 20 dB μ output
 ± 2.5 dB at -20 to 0 dB μ output
Output impedance : 50, VSWR less than 1.25
Spurious : -30 dB or less
Residual modulation (S/N) : FM component: 73 dB or more
AM component: 55 dB or more

Modulation

Internal modulation frequency : 400 Hz or 1 KHz $\pm 3\%$
External modulation : Input impedance: 10 K Ω
Input voltage: 3 Vp-p $\pm 2\%$

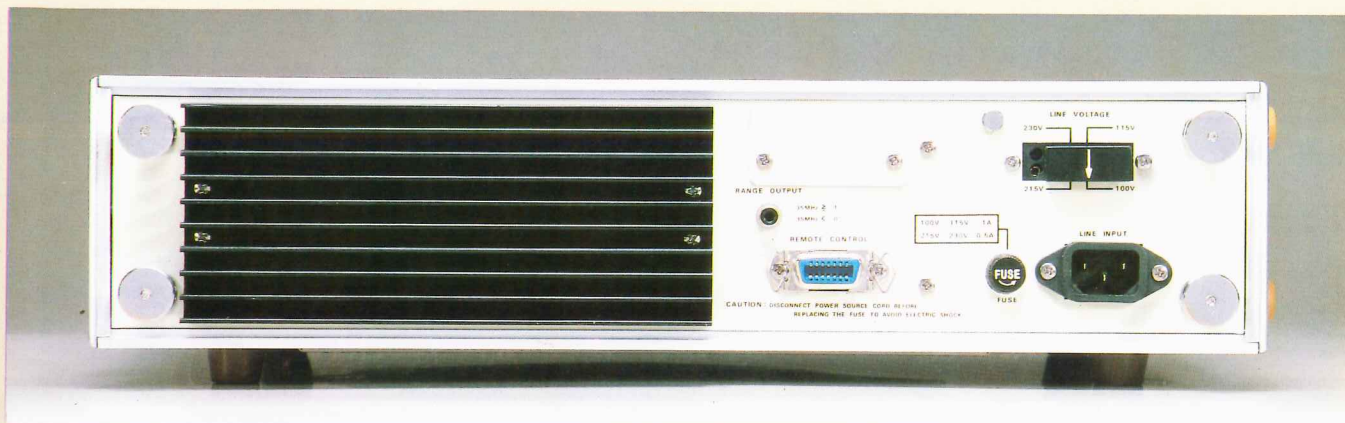
(FM) Range : 0 ~ 99.5 KHz at 1 to 110 MHz
carrier frequency $\times 10\%$ at below 1 MHz
Resolution : 0.5 KHz
Accuracy : $\pm 10\%$ of maximum frequency deviation
Distortion : less than 0.05% for 75 KHz
deviation by 1 KHz AF signal at
75 to 110 MHz
less than 0.1% at the other range

(AM) Range : 0 ~ 60%
Resolution : 0.5%
Accuracy : $\pm 5\%$
Distortion : less than 0.5% for 30% modulation
by 1 KHz AF signal at
200 KHz to 30 MHz
less than 1.5% at the other range

(STEREO) Separation : 55 dB or more at 400 Hz to 1 KHz
40 dB or more at 100 Hz to 10 KHz
30 dB or more at 50 Hz to 15 KHz
Pilot : 19 KHz ± 2 Hz
Distortion : less than 0.06% for 100% modulation

Others

Preset keys : FM modulation: 3.5, 22.5, 75 KHz
AM modulation: 30%
Stereo modulation: 30%, 100%
Power requirements : AC100, 115, 215, 230 V $\pm 10\%$
50/60 Hz, Approx. 35 VA
Dimensions : 100(H) \times 420(W) \times 360(D) mm
Weight : Approx. 12 Kg



Specifications are subject to change without notice.

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