

CREDIX Co., LTD

Signal Generators

■ SG-1501B: FM Stereo/FM/AM Signal Generator



INTRODUCTION:

The model SG-1501B is synthesized signal generator which has frequency range from 100 kHz to 150 MHz. It generates CW and FM/AM modulation signals, its output range is from $-20 \text{dB}\mu$ to $126 \text{dB}\mu$.

This advanced FM/AM signal generator can be controlled by external equipment through GPIB interface.

FEATURES:

- ▶ Wide band coverage (100kHz~150MHz) and high accuracy (100Hz in full range).
- Output level can be specified by 0.1dB step between -20dBµ to 126dBµ.
- Presetting function for simple operation.
- STEREO Function
- Compact size and light weight.
- Crystal oscillator stability: 5 × 10-6 (5ppm)
- Options: GPIB, Remote Controller

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FREQUENCY

Range 100kHz~150MHz(76MHz~110MHz, FM Stereo)

Resolution 100Hz

Accuracy $5 \times 10 - 6(5 \text{ppm})$

OUTPUT LEVEL

Range $-20dB\mu \sim 126dB\mu$ at open circuit(-133dBm $\sim 13dBm$ into 50Ω

termination)

Resolution 0.1dB

Accuracy ±1dB at 100 dBµ

Attenuator Accuracy $\pm 1.5 dB(126 \sim 100 dB\mu)$, $\pm 1 dB(20 \sim 100 dB\mu)$, $\pm 2 dB(-20 \sim 20$

dB_µ)

Output Impedance 50Ω , VAWR less than 1.2

Spurious & Harmonics ≤-30dBc

Residual FM Component : 70dB or more Modulation(S/N) AM Component : 50dB or more

MODULATION

Accuracy

Internal Modulation Frequency: 400Hz, 1kHz

External Modulation Input Impedance: $10k\Omega$ unbalanced $\pm 10\%$

Input Voltage: 3Vp-p±2%

FM Range 0~100kHz (@1MHz~150MHz)

Carrier Frequency×10% (@<1MHz)

Pre-Emphasis off, 25usec,50usec,75usec ±10% of maximum frequency deviation

Distortion <0.06% (@ 10.7MHz, 76~110MHz)

<0.11% (@ other range)

(with Dev=75kHz,

AF 1kHz,Demod.BW=50Hz \sim 15kHz,DE-emp.=50 μ s ec)

AM Range 0~60%

Resolution 0.1%

Accuracy ±5% at internal rate(100kHz~110MHz)

±10% at internal rate(110MHz~150MHz)

Distortion <0.65% (@ 400kHz~30MHz)

< 1.5% (@ other range)

(with Depth =30%, AF 1kHz, Demod. BW=50Hz~15kHz)

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