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GENERAL PURPOSE DIGITAL NOISE GENERATOR

GPN-1200A

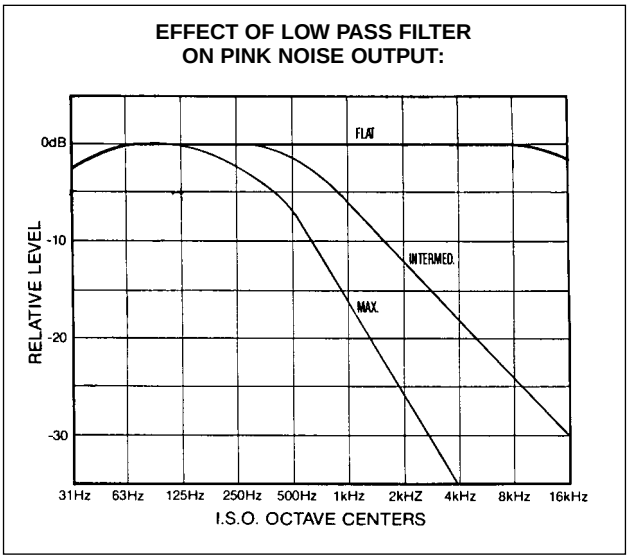


GPN-1200A Front



GPN-1200A Back

EFFECT OF LOW PASS FILTER ON PINK NOISE OUTPUT:



FEATURES

- Provides Output Level Necessary for Most Commercial Equalizers and Amplifiers (.3V into 600 ohms, -8 dBm)
- Generates Pink or White Noise Selectable via Rear-Mounted Switch
- Adjustable Low Pass Filter Shapes Frequency Spectrum for Use in Common Sound Masking Applications
- Rear-Mounted Controls Prevent Unauthorized Tampering
- Mounts in Any Standard 19" Wide Rack Cabinet

APPLICATIONS

Utilize digital noise generator Model GPN-1200A for audio equipment testing, or as the signal source in sound masking systems. It provides the output level necessary to match the input circuits of most commercially available equalizers and amplifiers.

Unit is recommended for use in sound masking systems using Atlas Sound masking loudspeakers. Sound masking systems are designed to help eliminate the auditory distraction associated with open office plan environments as well as providing conversation privacy in offices such as schools, churches, restaurants, etc. (Additional information on masking loudspeakers and sound masking in general is available upon request.)

GENERAL DESCRIPTION

The Atlas Sound GPN-1200A digital generator with switchable output is capable of producing either pink or white noise to match the input circuits of most commercial equalizers and amplifiers. Output level is .3V into 600 ohms (-8 dBm). Low pass filter shapes frequencies from 16 kHz to 250 Hz at 12 dB per octave. This self-contained unit with built-in power supply operates at 117 VAC at 60 Hz and includes replaceable fuse, ¼" phone jack, and screw terminal output connections.

Chassis is mounted to a rugged 19" x 1¾" (483 x 44mm) rack panel for easy installation. Rear-mounted controls prevent unauthorized tampering. Finish is black semi-gloss epoxy.

ARCHITECT AND ENGINEER SPECIFICATIONS

The digital noise generator shall be Atlas Sound Model GPN-1200A. It shall be capable of producing either pink or white noise with an output level of .3V into 600 ohms (-8 dBm). It shall have a low pass filter adjustable from 16 kHz to 250 Hz at 12 dB per octave. The generator shall have a built-in power supply (117 VAC at 60 Hz input) and be premounted to a standard 19" x 1¾" (483 x 44mm) rack panel. All controls shall be rear mounted to prevent unauthorized tampering. Output connections consisting of screw terminals and ¼" phone jack shall be provided. Finish shall be black semi-gloss epoxy.

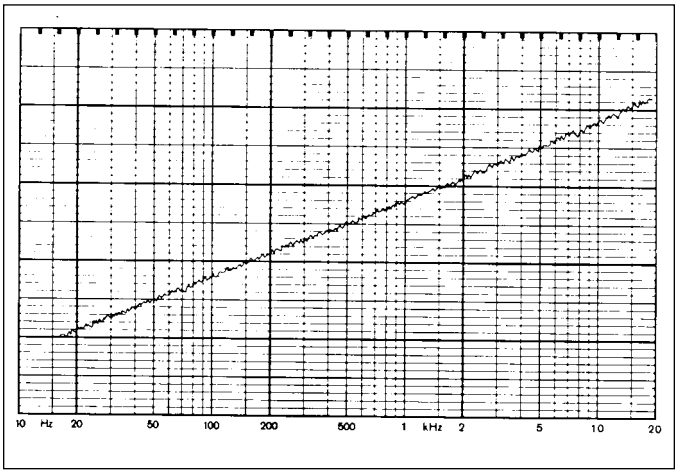
Specifications subject to change without notice

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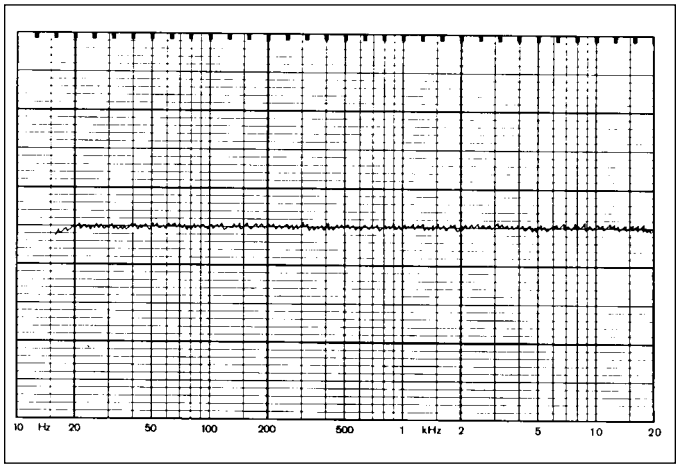
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USING WHITE NOISE VS. PINK NOISE

By definition, white noise is comprised of equal energy at all frequencies; pink noise has equal energy levels in each octave band. Using logarithmic scale graphs (common in the commercial audio industry) each type of noise signal could be represented as shown below:

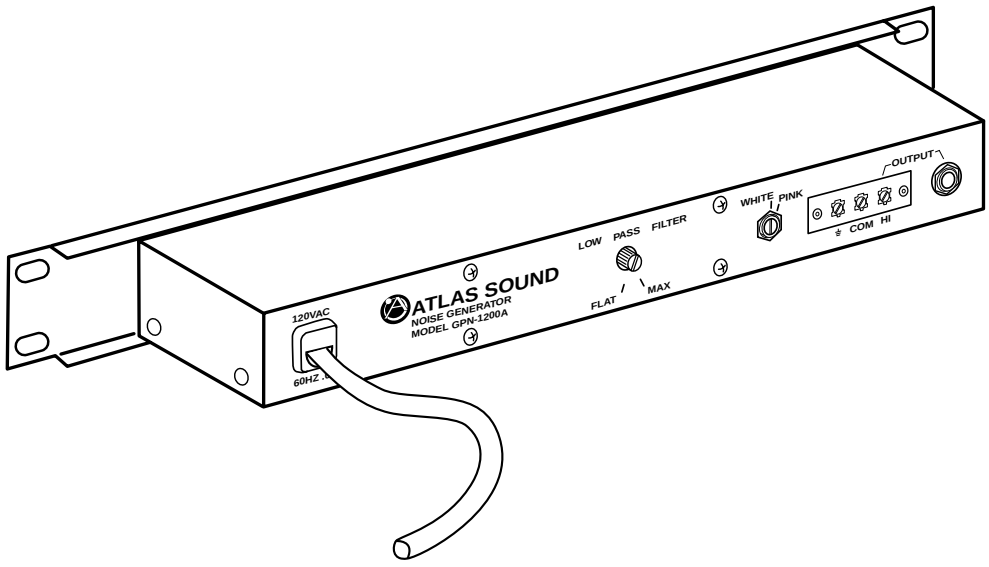


WHITE NOISE
(equal energy at all frequencies)



PINK NOISE
(equal energy levels in each octave band)

Note: Graphs shown above are provided for definition purposes only. Not intended to represent actual generator output.



GPN1200A - Rear Side

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