AVLELEC

SMGA-5

Sound Masking Generator with 5W Amplifier

Quality Features

- AVLELEC's sound masking generator/amplifier provides an all-in-one source approach for small masking applications.
- 1RU rackmount chassis features removable plug-in terminations for pre-wire convenience.
- Bass, mid, and treble tone controls allow for subjective shaping on site.
- Compatible with AVLELEC's full selection of masking speakers for suspended or T-bar installation.

SMGA-5 Specifications

Generator Output Signals:	Pink noise (equal energy/octave)
Generator Controls:	Output level, Low pass filter (flat to aprox. 9dB/octave roll-off at 300Hz)
Amplifier Output Power:	5 watts into 70V, 25V or 8-ohms
Auxiliary Input:	Hi-Z (500mv) line for paging, music, or signaling
Internal Input:	Noise (connected internally)
Output Connections:	Plugable barrier strip
Amplifier Controls:	Master level plus bass, midrange, and treble controls (±12dB); and auxiliary input level.
Power Requirements:	120VAC, 60Hz, 14watts
Size:	19"W x 1.75"H (1RU) x 4"D

Description

Sound Masking Generator / Amplifier Model SMGA-5 provides a pink noise signal and amplifier (5W into 70V, 25V, or 8 ohm) for use in stand-alone applications (masking or masking/paging/music) or for interfacing with existing paging/music systems. *See page 2 for typical wiring diagrams.*

The generator produces a *pink noise* (equal energy / octave) signal that is fed to the speakers to produce the characteristic "windy" sound that masks ambient noise to create conversational privacy. Controls include output level and an adjustable low pass filter that shapes frequencies at 9dB per octave with roll off at 300Hz.

The 5W amplifier includes an auxiliary Hi-Z input for a paging, music, or signaling source. Controls include level adjustment for the auxiliary input signal, master level plus individual controls for shaping bass, midrange, and treble frequencies.

Rackmount chassis is 19"W x 1.75"H (1RU) x 4"D with barrier strip plug-in terminations. Chassis is formed from 20-gauge steel with a 16-gauge steel front panel finished in AVLELEC's durable black powder epoxy. AVLELEC also offers a 20W (2RU) masking generator - Model SMGA20 and a generator-only version - Model SMG1. Additionally, AVLELEC manufacturers a wide selection of 8" and 4" masking speakers for suspended installation above the ceiling or for mounting onto the T-Bar grid.

A & E Specifications

The sound masking generator/amplifier shall be AVLELEC Model SMGA-5. Generator controls shall include output level and low pass filter. The amplifier output shall be 5-watts into 70V, 25V, or 8-ohms. Auxiliary amplifier input for paging, music or signaling shall be a plugable barrier strip. Amplifier controls shall include input level; a master level control; plus bass, mid, and treble tone controls. Power requirements shall be 120VAC, 60Hz, 14-watts. The chassis shall be formed from 20-gauge steel with a 16-gauge steel front panel on E.I.A. spacing for rack mount installation. Chassis shall measure 19"W x 1.75"H (1RU) x 4"D. The chassis assembly shall be finished in black powder epoxy paint, include silkscreened information, and a permanently connected power supply.

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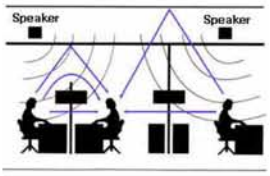

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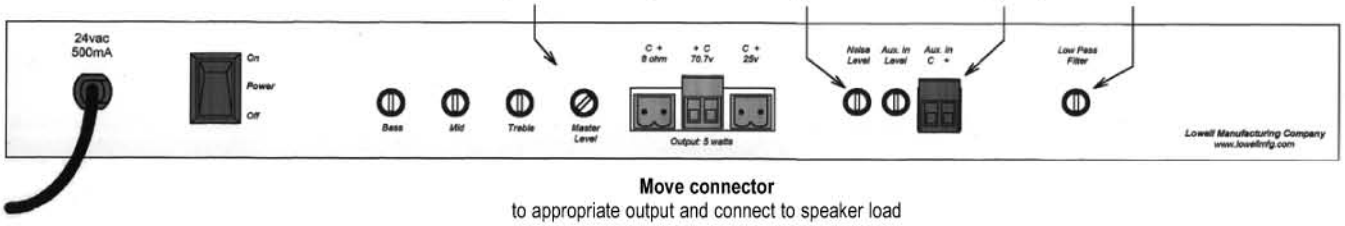
Sound Masking Generator with 5W Amplifier

Master Level adjusts overall level while maintaining the relative levels of noise and aux. input.

Noise Level sets level of noise signal to amplifier (connected internally).

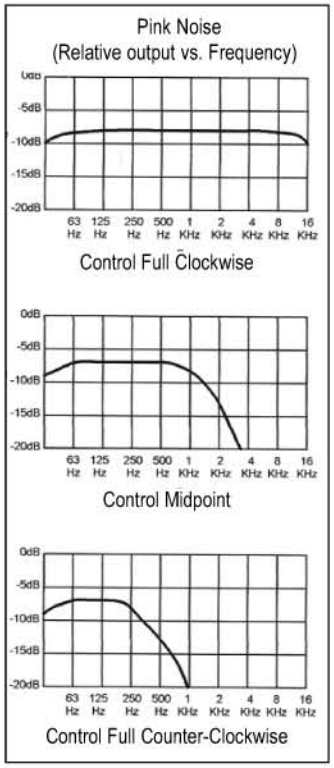
Auxiliary Input may be used for music, paging, and/or tone signaling.

Low Pass adjusts high frequency roll-off.

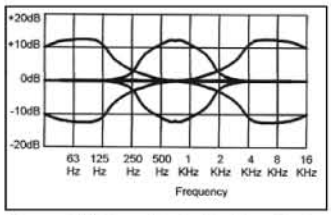


Move connector
to appropriate output and connect to speaker load
(5W max for 70.7V or 25V outputs).

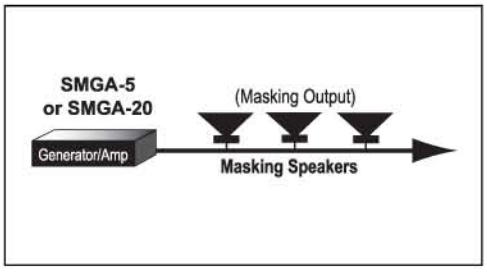
Rear panel layout Model SMGA-5



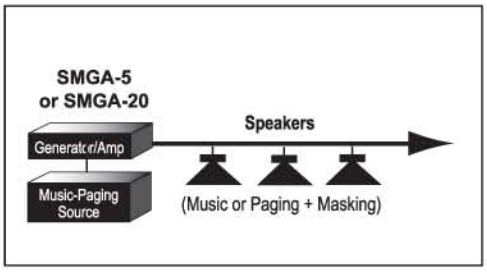
Low Pass Filter Response
(approximate representation)



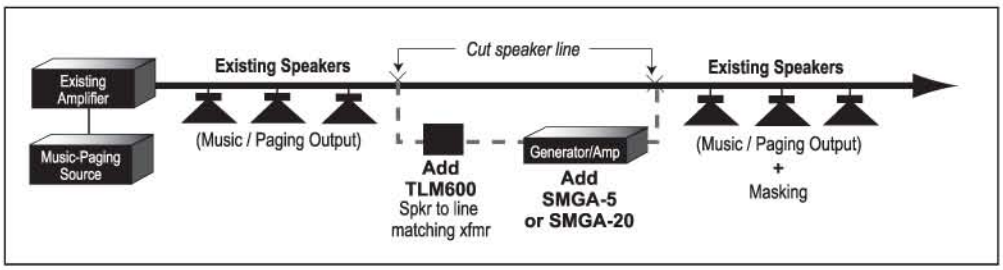
Bass, Mid, and Treble Controls
(approximate - assuming input is flat)



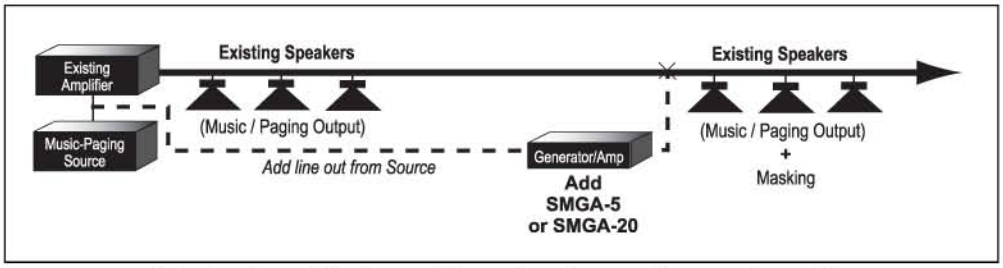
Typical stand-alone application



Typical multi-purpose masking with paging



Typical masking addition to an existing system using a line matching transformer and masking generator amplifier connected to the speaker line.



Typical masking addition to an existing system using a masking generator amplifier connected to a new line-out from the music-paging source.

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