EMtech Electronics Inc.

compact & complete solution

simple installation

high-security pseudo-random sequence

SMG110
Sound Masking Generator

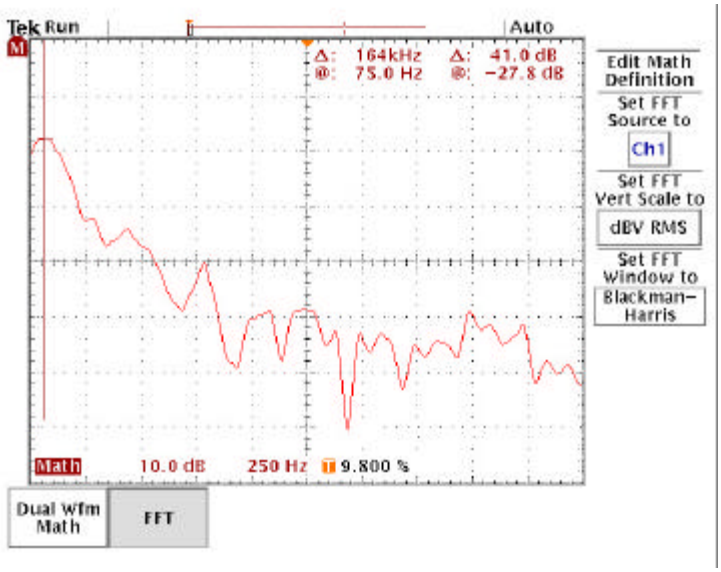
Providing voice privacy with sound masking just got easier. The SMG110 Sound Masking Generator is not only the perfect solution for masking needs in offices or facilities where voice privacy enhancement is desired, it is now the easiest to install. The SMG110 generates a soft pink noise that is ampified by an on-board 10W audio amplifier. The power supply is also located on-board, and the whole unit is mounted on a decora panel . To install the SMG110 all you need is a standard single gang wall box , a 120V hook-up, and your speaker hook-up. Connect your 120V power, hook-up your speaker install the decora panel into the box, turn on the SMG110, and adjust the output level. It is that simple. Sound masking just became easier and more affordable.

The pseudo-random sequence that feeds the pink noise low-pass filter on the SMG110 exceeds 1.5 days in length before the sequence is repeated. This provides a realiable high security solution for your noise masking. Available in Brown, Ivory or White.

Electrical Specifications:

The SMG110 generates a “warm” Pink Noise with the power spectrum of the unit peaking at 75 Hz with a level of -27.8 dBV RMS, rolling off to less than -60 dBV RMS at 830 Hz (approximately 9.5 dB per octave) and flattening out at -68 dBV RMS throughout the audio spectrum. (These numbers are approximate representations only, since each sample of the pseudo-random noise will yield a slightly different plot.)

The following image is a sample frequency power spectrum waveform of the output from the SMG110 using a Tektronix TDS3014B Oscilloscope with FFT capability.



Power Input . . . . . .100-120VAC, 50-60Hz, .43A
Output . . . . . .10W @6 ohms

Dimensions . . . . . 4.0”H X 2.0” W X 1.75”D
Weight . . . . . 4 oz.