

## SMG100 Sound Masking Generator

compatible with  
\*TOA® 900 Series

high security  
pseudo-random  
sequence

simple installation  
& affordable

The EM-SMG100 Sound Masking Generator card is the perfect solution for masking needs in offices or facilities where voice privacy enhancement is desired. The SMG100 generates a soft pink noise that acoustically sounds very much like air-handling ducts or vents. It can provide voice privacy at an affordable cost.

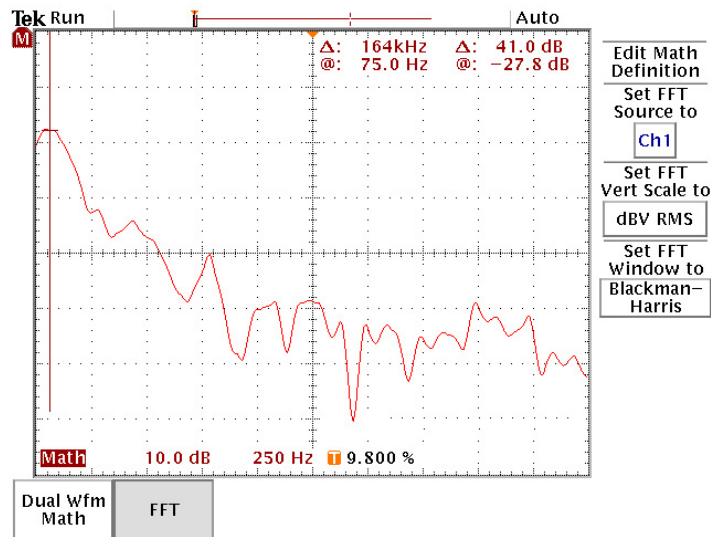
The SMG100 card has been designed to be compatible with the TOA® 900 series amplifiers, or other amplifiers that accept the 900 series configuration cards. This makes your installation for sound masking simple since it plugs right into one of the card slots on the back of the 900 series amplifier.

The pseudo-random sequence that feeds the pink noise low-pass filter on the SMG100 card, exceeds 1.5 days in length before the sequence is repeated. This provides a reliable high security solution for your voice masking.

## Electrical Specifications:

The SMG100 generates a “warm” Pink Noise with the power spectrum of the card 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 SMG100 using a Tektronix TDS3014B Oscilloscope with FFT capability.



Power Consumption . . . . . 8mA @ 24VDC  
Signal Output . . . . . 200mV p/p

## Mechanical Specifications:

The SMG100 measures 2.4" X 3.0" with 6 gold plated fingers for installation into one of the edge card slots on the back of a TOA 900 series amplifier.