

## **GLPN PINK NOISE GENERATOR**

**AUDIO NOISE SOURCES:** A pink or white noise generator is an essential tool for running many tests on sound systems and their components. Adjustment of equipment drive levels must be made external to the generator. White noise has an equal amount of energy per Hz of bandwidth. For example, there would be equal energy from 20Hz to 21Hz as there would be from 20,000Hz to 20,001Hz. This characteristic is most useful with what are called constant Hz-bandwidth analyzers, which most swept-spectrum analyzers are. White noise is easily shaped or filtered to make pink noise which has equal energy per octave of bandwidth (or in each fraction of an octave). For example, there is equal energy in the octave centered at 125Hz and in the octave at 2kHz, or any other within the limits of the generator. Pink noise thus produces a flat response in constant-percentage bandwidth analyzers such as the Gold Line analyzers and other RTAs (real time analyzers). The spectrum of pink noise also approximates that of much music with less power per Hz (-3dB/octave) with increasing frequency. This makes it an excellent test signal for sound systems, where white noise could burn out tweeters. At lower levels, white noise can be used for critical listening checks and some other tests, but pink noise is much more useful, in general.

**GLPN - PRODUCT DESCRIPTION:** Pink noise generator providing continuous pink noise.

**OUTPUT:** Signal out: unbalanced 3 Pin Male XLR – impedance 600 ohms. The GLPN is activated by inserting it into an input jack where Phantom Power is present. Red LED lights when power is present.

**OUTPUT LEVEL:** Continuous @ 24.5mV (-32.2dBV)

**FREQUENCY RANGE:** 20Hz - 20kHz

**TYPICAL FLATNESS:** ±1dB 31Hz – 20kHz; +1/-2dB – 25Hz

**POWER REQUIREMENTS:** 12 – 48 Vdc Phantom Power.

**SIZE (L x D); WEIGHT:** 2.75" x 75"; 2 oz.

**CASE MATERIAL:** Die cast body.



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