

Analyze, equalize and measure — swiftly, inexpensively and with precise accuracy — with ALTEC's newest plug-in, amplifier accessory module: The 8080A Pink Noise Generator.

Features:

- All Solid-State Fits Most ALTEC Amplifiers** — The 8080A is a sealed, solid-state module designed specifically for ALTEC amplifiers having provisions for plug-in preamplifier input modules.
- Wide Frequency Response** — Produces a random noise signal of constant amplitude per octave bandwidth from 20 Hz to 20 kHz. It is intended for use in audio spectrum analysis and in Acousta-Voicing[®] *.
- Simplifies Analysis and Reduces Need for Special Equipment** — Using the 8080A simplifies audio analysis and eliminates the need for elaborate equipment such as laboratory generators, special prerecorded tapes that are hard to find, phonograph records of limited utility and professional playback units.
- Versatile for Many Uses** — Specific sound analysis setups with the 8080A may include determination of house curves with either sound system or measuring microphones, finding diaphragmic absorption, finding electronic/acoustic response of filters and equalizers, and measuring crosstalk.
- Regulated Output** — The 8080A maintains a nominal output of 0.2V rms for input voltages ranging from +12 to +20V dc. Its emitter-follower output stage drives a nominal load of 600 ohms.
- Easily Installed** — The 8080A is plugged into the octal-socket input channel of any ALTEC amplifier that provides +12 to +20V dc to pin 5 of the socket.

*The exclusive Altec Acousta-Voicing process is patented under Pat. No. 3,624, 298.

ALTEC[®]

1515 S. Manchester Ave., Anaheim, Calif. 92803

ALTEC 8080A

SPECIFICATIONS

Type:	Plug-in solid-state generator providing constant amplitude random noise per octave bandwidth
Power Output:	0.2V rms typical into 600-ohm load
Frequency Response of Spectrum:	± 1 dB from 20 Hz to 20 kHz (time averaged)
Load Impedance:	600 ohms nominal
Power Requirements:	From +12V dc at 22 mA to +20V dc at 33 mA
Operating Temperature Range:	Up to 55°C (131°F)
Type of Termination:	Octal plug (mates with standard octal socket)
Dimensions:	1-5/16" dia. x 1-13/16" seated height
Weight:	1.6 ounces

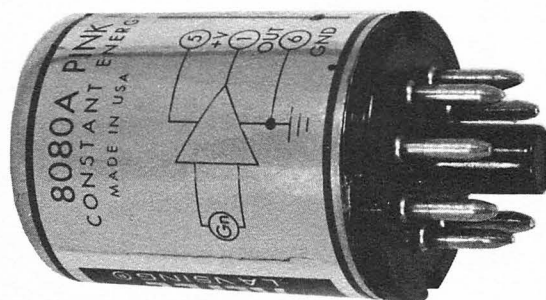
ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The pink noise generator shall be a sealed, plug-in solid-state module capable of meeting the following performance criteria. Power requirements, from +12V dc at 22 mA to +20V dc at 33 mA. Output signals, constant amplitude (0.2V rms typical into 600-ohm load) random noise per octave bandwidth. Frequency response, ± 1 dB from 20 Hz to 20 kHz (time averaged). Load impedance, 600 ohms nominal. Operating temperature range, up to 55°C (131°F). Its diameter shall be 1-5/16", its seated height shall be 1-13/16" and it shall weigh 1.6 ounces.

Any pink noise generator not meeting all these requirements shall be unacceptable under these specifications.

The pink noise generator shall be the ALTEC Model 8080A Pink Noise Generator.

NOTICE
We recommend that you obtain your Altec products from factory trained authorized Altec Sound Contractors and Distributors. This will assure you of proper installation, a continuing source of knowledgeable advice, service, and quick warranty protection.

OPERATING
INSTRUCTIONS

SPECIFICATIONS

Type:	Plug-in solid-state pink noise generator providing constant energy per octave bandwidth
Power Output:	0.2V rms typical into 600-ohm load
Frequency Response and Spectrum:	± 1 dB from 20 Hz to 20 kHz
Load Impedance:	600 ohms nominal
Power Requirements:	From +12V dc at 22 mA to +20V dc at 33 mA
Operating Temperature Range:	Up to 55° C (131° F)
Type of Termination:	Octal plug (mates with standard octal socket)
Dimensions:	1-5/16" dia. x 1-13/16" seated height
Weight:	1.6 ounces

DESCRIPTION

The ALTEC 8080A Pink Noise Generator produces a random noise signal of constant energy per octave bandwidth from 20 Hz to 20 kHz at approximately 0.2V rms. Intended applications are audio spectrum analysis and Acousta-Voicing®*.

* The exclusive ALTEC Acousta-Voicing process is patented under Patent No. 3,624,298.

Using the 8080A simplifies audio analysis and eliminates the need for elaborate equipment such as laboratory generators, special prerecorded tapes that are hard to obtain, phonographic records of limited utility, and professional playback devices. Specific sound analysis set-ups with the 8080A may include the determination of house curves with either sound-system or measuring microphones, finding diaphragmic absorption, finding electronic/acoustic response of filters and equalizers, and measuring crosstalk.

Specifications and components subject to change without notice. Overall performance will be maintained or improved.

The 8080A is a sealed, solid-state module designed for ALTEC amplifiers having provisions for plug-in input modules such as transformers and preamplifiers.

INSTALLATION

The 8080A may be plugged into an input channel of any ALTEC amplifier having an energizing voltage within the range of +12 to +20V dc at pin 5 of the octal socket input connector. Use care when installing.

Circuit connections of the 8080A are shown in Figure 1.

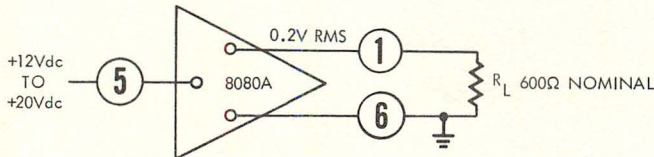


Figure 1. 8080A Circuit Connections

OPERATION

The 8080A maintains a nominal output of 0.2V rms for the energizing voltage range of +12 to +20V dc. An emitter-follower output stage drives a nominal 600-ohm load. Output is sufficient to drive most ALTEC amplifiers to full rated power.

MAINTENANCE

Field checks of the 8080A may be performed with a real-time analyzer and a voltmeter, as shown in Figure 2. Nominal output should be 0.2V rms. A typical test display on the real-time analyzer is shown in Figure 3.

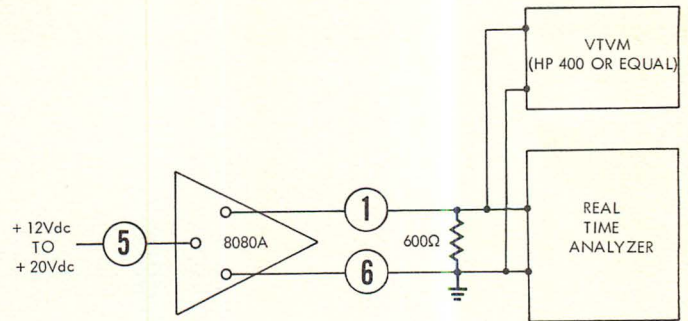


Figure 2. Function Check Setup

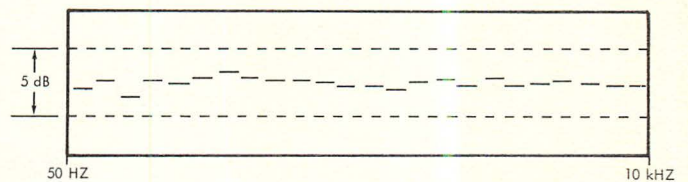


Figure 3. Typical 8080A Output Displayed on Real-Time Analyzer

The 8080A is a sealed unit and should be repaired only by an ALTEC Qualified Service Representative. For factory service, return the unit to Customer Repair — ALTEC, 1515 South Manchester Avenue, Anaheim, California 92803. For additional information or technical assistance, call (714) 774-2900, or TWX 910-591-1142.