

SPECIFICATIONS

1579C Equalized Preamplifier

Type:	Plug-in solid-state preamplifier, equalized for magnetic phono pickup
Sensitivity:	5 mV for 70 mV output at 1 kHz
Power Output:	+14 dBm with +20V dc applied and less than 0.5% THD at 1 kHz
Frequency Response:	In accordance with RIAA phono standards
Input Impedance:	47,000 ohms
Load Impedance:	600 ohms minimum
Operating Temperature:	Up to 55°C (131°F)
Power Requirements:	From +12V dc at 10 mA to +20V dc at 18 mA
Shielding:	Mu-metal case provides protection from stray magnetic fields
Type of Termination:	Octal plug (mates with standard octal socket)
Dimensions:	1 $\frac{1}{8}$ " (3.33 cm) diameter x 1 $\frac{1}{8}$ " (4.60 cm) seated height
Weight:	1.5 ounces

1588B Microphone Preamplifier

Type:	Plug-in solid-state preamplifier with transformer-isolated input
Gain:	33.5 dB std.; variable 11–33.5 dB

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

1579C Equalized Preamplifier

The equalized preamplifier shall be a sealed, plug-in solid-state module equalized to meet the RIAA standard for use with a magnetic phono pickup. It shall provide 5 mV sensitivity for 70 mV output at 1 kHz. The frequency response of the preamplifier shall be in accordance with RIAA phono standards. Its input impedance shall be 47,000 ohms and its load impedance shall be 600 ohms. It shall be capable of delivering a power output of +14 dBm when +20V dc is applied with less than 0.5% THD at 1 kHz. The preamplifier shall be capable of operation in ambient temperature up to 55°C (131°F) and it shall be capable of operation with applied power ranging from +12V dc at 10 mA to +20V dc at 18 mA. The case of the module shall be of mu-metal to provide protection from stray magnetic fields. The circuitry of the preamplifier shall terminate at a standard octal plug that shall be capable of being mounted in any standard octal socket. The module shall be 1 $\frac{1}{8}$ " in diameter and 1 $\frac{1}{8}$ " high when seated in its intended mounting socket, and shall weigh not more than 1.5 ounces.

The equalized preamplifier shall be ALTEC Model 1579C.

Power Output:	+9 dBm into 600 ohms with 12V dc power +14 dBm into 600 ohms with 20V dc power
Total Harmonic Distortion (THD):	Less than 1% at rated output from 40 Hz to 20,000 Hz
Input Clipping Level:	–20 dBm with 33.5 dB gain and 20V dc power Variable with gain to +2 dBm at 11 dB gain and 20V dc power
Frequency Response:	±1 dB from 30 to 20,000 Hz
Equivalent Input Noise Level:	Equal to or better than –124 dBm
Source Impedance:	150/250 ohms
Load Impedance:	600 ohms minimum
Output Impedance:	Less than 10 ohms
Operating Temperature:	Up to 55°C (131°F)
Power Requirements:	From +12V dc at 13 mA to +20V dc at 20 mA
Shielding:	Mu-metal case provides effective magnetic shielding of 90 dB for the input transformer
Type of Termination:	Octal plug (mates with standard octal socket)
Dimensions:	1 $\frac{1}{8}$ " (3.33 cm) diameter x 1 $\frac{1}{8}$ " (4.60 cm) seated height
Weight:	1.5 ounces

1588B Microphone Preamplifier

The microphone preamplifier shall be a sealed, plug-in solid-state module with a transformer-isolated input. It shall provide a gain of 33.5 dB, switchable to 20 dB when a 20,000-ohm resistor is connected in series between pins 2 and 6 of its mounting socket. It shall be capable of delivering a power output of +9 dBm when +12V dc is applied with less than 1% THD from 40 to 20,000 Hz, or +14 dBm when +20V dc is applied with less than 1% THD from 40 to 20,000 Hz. The equivalent-input noise level of the unit shall be equal to or better than –124 dBm. Its source impedance shall be 150/250 ohms, its load impedance shall be 600 ohms and its output impedance shall be less than 10 ohms. The preamplifier shall be capable of operation in ambient temperature up to 55°C (131°F) and it shall be capable of operation with applied power ranging from +12V dc at 13 mA to +20V dc at 20 mA. The case of the module shall be of mu-metal and capable of providing effective magnetic shielding of 90 dB for the input transformer. The circuitry of the preamplifier shall terminate at a standard octal plug that shall be capable of being mounted in any standard octal socket. The module shall be 1 $\frac{1}{8}$ " in diameter and 1 $\frac{1}{8}$ " high when seated in its intended mounting socket, and shall weigh not more than 1.5 ounces.

The microphone preamplifier shall be ALTEC Model 1588B.

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