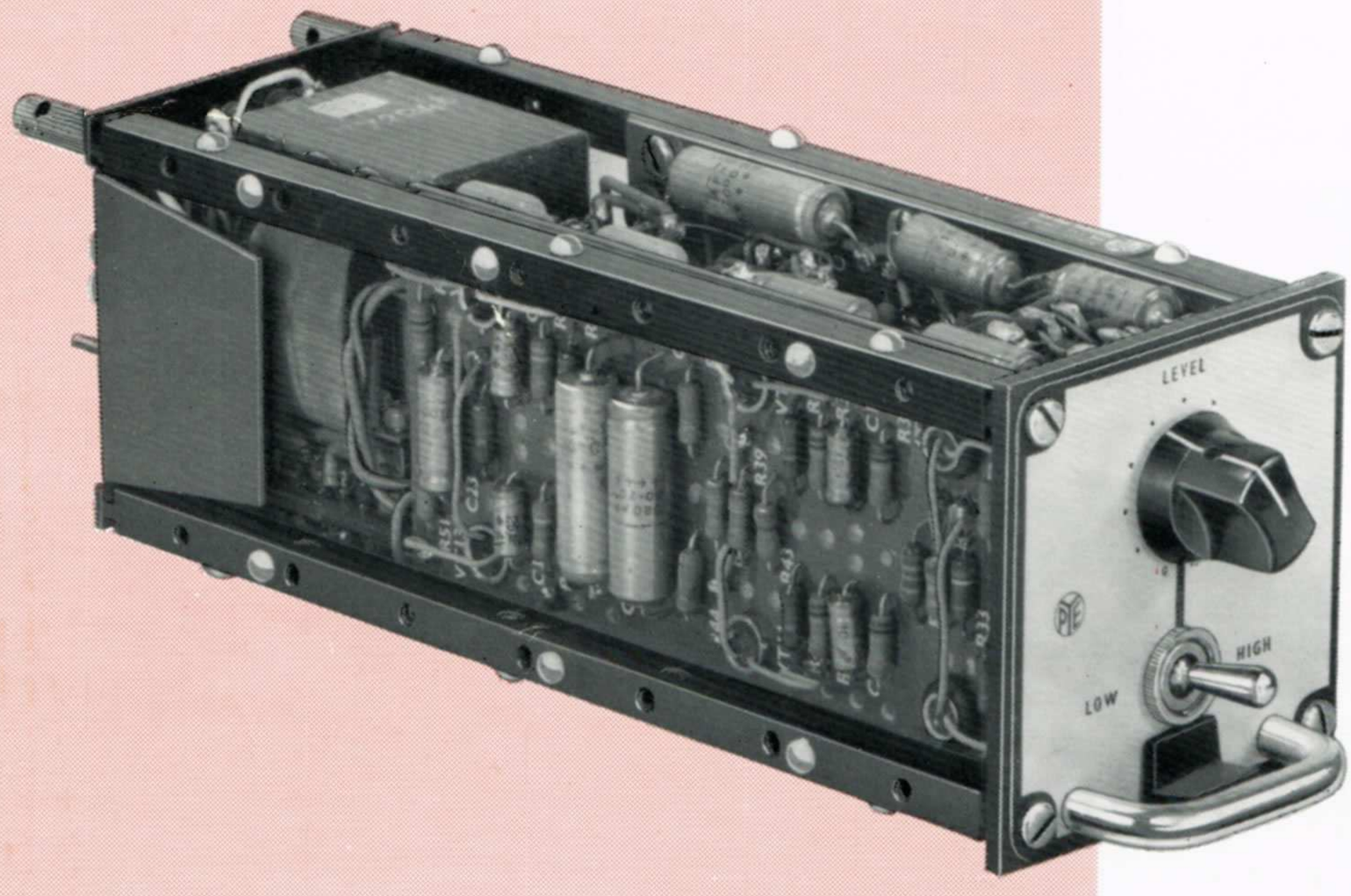


AUDIO AMPLIFIER TYPE 4055

The amplifier is designed to fulfil the functions of a line or group amplifier in an audio installation. The characteristics of the design also make it suitable for handling signals at microphone level or for sending signals at +24dBm to line.

The proportions of the amplifier are those of the smallest unit of the Cassette range (Size AA) and it is suitable for rack or console mounting in the special receptacles designed for this range of units.

All components and transistors are operated well within their maximum ratings. External ambient temperature conditions have been considered in the design and the performance of the unit will remain within the specification limits for a temperature range −10°C to +55°C.

On the front panel are two gain controls, one is a 20dB switch and the other a rotary control. The maximum input level with gain switch in low position is +10dBm.

The amplifier will deliver a maximum output level of +24dBm. Where a lower level is required, provision has been made for reducing the current consumption through the use of externally connected resistance across two pins on the connector.

The unit will engage with the external circuitry when inserted into its receptacle compartment and will automatically lock in position when fully home. The unit can be quickly withdrawn by releasing a catch located within the handle space.

FEATURES

Compact, all-transistor design for use as either microphone or line amplifier.

Incorporates special transistor input circuit giving low inherent noise

Power consumption may be reduced where full output level is not required

ABRIDGED SPECIFICATION

TYPE 4055

Frequency Response (relative to 1 kc/s)	60 c/s to 8 kc/s within ±0·2dB. 30 c/s to 15 kc/s within ±1·0dB.
Gain (Fully variable)	High: 80dB ±1dB maximum. Low: 60dB ±1dB maximum.
Input Impedance	600 ohms ±10% with a reactive component of less than 120 ohms between 60 c/s and 8 kc/s.
Output Impedance	Less than 30 ohms with a reactive component of less than 7·5 ohms between 60 c/s and 8 kc/s.
Supply Requirements	300mA at 16 volts 24dBm, reduced current for lower output requirements.
Input Isolation	Greater than 50dB.
Output Isolation	Greater than 50dB.
Noise	—122dBm equivalent input noise at maximum gain.
Distortion	(measured at 30 c/s, 1 kc/s, 8 kc/s). Less than 1% at 24dBm. Less than 1% at 0dBm (low current).
Overall Dimensions	Height: 2·81 in. (7·1 cm). Width: 2·81 in. (7·1 cm). Depth: 9·2 in. (23·4 cm).* * Including handle and mating plug.
Weight	3 lb 12 oz (1·7 kg).
Accessories	Receptacle Frame, capable of holding 12 units of this type—Part No. AG 22904.
Part Number	844055—includes mating connector and connector mounting plate.

Specification details subject to change without notice.

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