

## KS-16611, L1 TRANSFORMER

### 1. GENERAL

1.01 This practice provides information pertaining to the use of the KS-16611, L1 Transformer. This is a plug-in unit to be used in the input circuit of the KS-16608, L1 and KS-16610, L1 Amplifiers as well as the KS-16612, L1 Mixer Unit. These amplifiers and the mixer unit, are discussed in other sections in this group of practices. The transformer is used when the input voltage originates from a carbon microphone or telephone line facility.

### 2. ELECTRICAL AND MECHANICAL CHARACTERISTICS

2.01 The KS-16611, L1 Transformer is provided with both electrostatic and electromagnetic shields and fits into a 9-pin socket on the chassis of the basic amplifiers. It also plugs into a 9-pin socket on the KS-16612, L1 Mixer Unit which, in turn, plugs into the basic amplifier.

2.02 The transformer is designed to operate from a 600-ohm impedance and has taps for 37.5 and 150 ohms. It has the following characteristics:

**Impedance Ratio:**

37.5, 150 and 600 ohms to 100,000 ohms.

**Frequency Response:**

70 to 10,000 cycles  $\pm 1.0$  db.

**Maximum Input Level:**

+10 dbm.

**Mechanical Details:**

Height — 2-9/16" maximum, overall.

2" maximum, when mounted in socket on amplifier or mixer unit.

Diameter — 1-3/16" maximum.

Weight — 3 ounces.

Finish — Gray.

2.03 Fig. 1 below shows the schematic for the transformer. The terminals shown in the schematic are the plug pin numbers. A photograph of the transformer is shown in the practices on the basic amplifier.

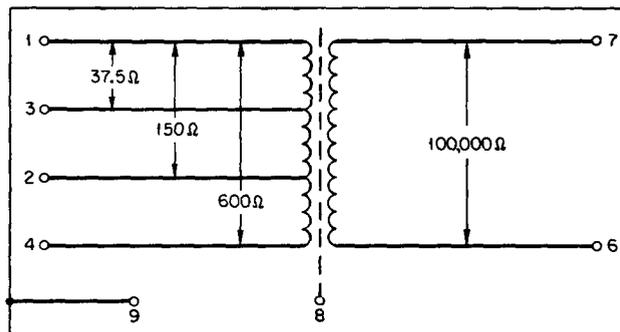


Fig. 1 — Schematic of KS-16611, L1 Transformer