

849C NETWORK DESCRIPTION

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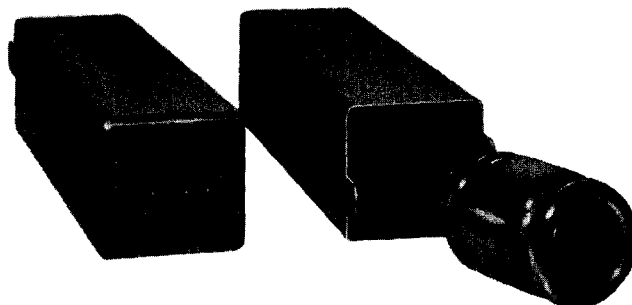


Fig. 1 — 849C Network

1. GENERAL

1.01 This section describes the 849C network, which is designed for use in V4 telephone repeater applications.

1.02 The 849C network is used in place of a 227-type amplifier when gain is not required and when the network is connected between 600-ohm circuits. The 849C network provides transmission level control. Simplex legs are not derived in the 849C network.

from its socket. Tabs are provided on the front of the can to facilitate removing the network from its connector socket by the use of a 602C or 602D tool.

Note: The 89-type resistor is not a part of the network. It must be ordered separately.

2. EQUIPMENT DESCRIPTION

2.01 The 849C network is a plug-in unit (see Fig. 1) equipped with a 15-pin connector plug and is designed to be plugged directly into the mating connector socket of the equipment mounting shelf. The 849C network is a 600-ohm balanced pad when the required 89-type plug-in resistor is inserted in the pad socket. The network is housed in a metal can approximately 1-3/4 inches wide by 1-3/4 inches high by 7 inches long.

2.02 Recessed in the front of the can is a 6-pin socket for receiving the 89-type plug-in resistor (see Note). An extractor tool, KS-5637, L1 is helpful in removing the 89-type plug-in resistor

3. CIRCUIT DESCRIPTION

3.01 Fig. 2 is a schematic of the 849C network showing typical circuit connections. Transmission signals from a 600-ohm source are applied to terminals 1 and 5. Terminals 4 and 8 connect the network output to a 600-ohm load.

3.02 The 600-ohm balanced pad (849C network plus 89-type resistor) provides a means of setting the transmission level as desired. The loss is adjustable in 0.25-db steps by selection of the proper 89-type plug-in resistor. The 1-kc power loss of the network and associated 89-type resistor between nominal 600-ohm impedances is 0.0 db plus the db loss marked on the 89-type resistor.

NOTE:
 RESISTORS a, b, AND c ARE CONTAINED IN
 THE 89-TYPE PLUG-IN RESISTOR (NOT
 FURNISHED WITH NETWORK).

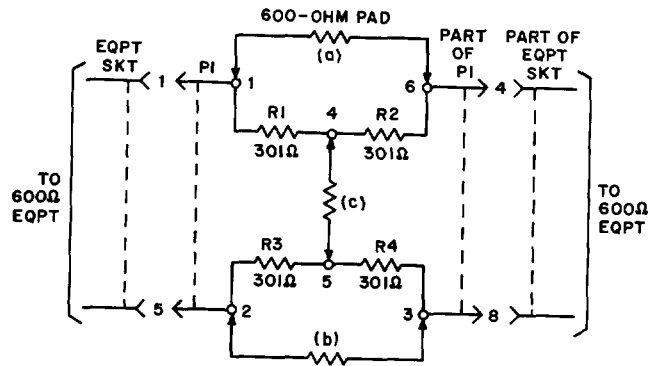


Fig. 2 — 849C Network — Schematic and Typical Circuit Connections