

## 4066-TYPE NETWORKS DESCRIPTION

### 1. GENERAL

1.01 The 4066-type networks are a series of plug-in precision balancing networks designed primarily to work with V4 repeaters. The 24V4C repeater shelf provides shelf space and sockets for mounting one or two of these networks. Plugging in a network on one of these shelves connects it to the proper place in the transmission circuit. When used without such a shelf, the network must be plugged into another type of shelf made to accommodate a number of networks or other plug-in units. It may then be crossconnected to its proper place in a transmission circuit.

1.02 The several varieties of 4066-type networks are described in sections immediately following this one in the numbering plan.

1.03 It is the function of the 4066-type networks to simulate, and thereby balance, certain transmission facilities and equipment. Most of the various kinds of these networks are provided with adjustments to permit attaining the best balance in the specific circuits in which they are used. These adjustments are made by means of screw-type switches such as those in the front view shown in Fig. 1. A connection is made by turning in a screw until its head makes firm contact with two parallel metal bars placed on opposite sides of the screw socket.

*Caution: Excessive twisting force on the screw may strip the threads; a firm contact is enough.*

1.04 The 4066-type networks are generally the electrical equivalents of the earlier, 115-type networks when both types are adjusted for balancing the same type of facility or equipment. The 4066 type, however, is not equipped with build-out capacitors (BOCs). Screw-switch-adjusted BOCs are available in the 1-type terminating sets used in 24V4C repeater shelves, and are automatically connected to the networks when the latter are plugged into the shelves. These BOCs are more accurate than those in the 115-type networks — accurate enough, in fact, to make prescription adjustments practicable when facility records are accurate.

1.05 When a 4066-type network requiring a BOC is used with a terminating set other than the 1-type, it may conveniently be associated with a 4066C network, which contains an adjustable BOC similar to that in the 1-type terminating set.

### 2. DESCRIPTION

2.01 Each 4066-type network consists of an aluminum can like that shown in Fig. 1, a number of electrical elements inside the can, a 20-pin connector plug, and a plastic faceplate which contains the adjusting screw-switches. It is about 1-3/4 inches square in cross-section, and 7 inches long. Tabs are provided on the front of the can to facilitate removal of the network from the mounting-shelf socket by means of a 602C or 602D tool.

2.02 The screw-type switches are identified by letters printed on, or molded into, the faceplate.

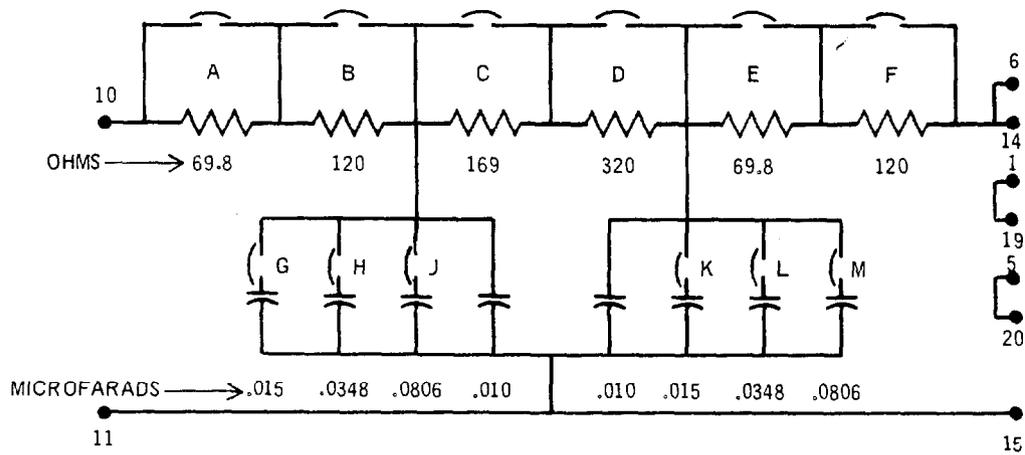
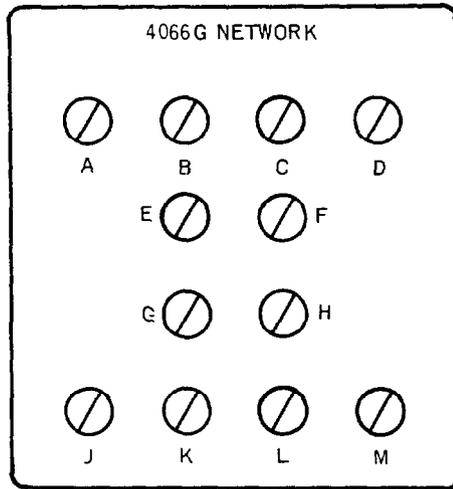


Fig. 1