J68338A IF SWITCHING AMPLIFIER

J68338B IF DISTRIBUTING AMPLIFIER

1. GENERAL

1.01 The J68338A IF Switching Amplifier and the J68338B IF Distributing Amplifier are components of the IF patching circuits used for program and maintenance switching and distributing at repeater and terminal stations of the TD-2 Radio System. The equipments are intermediate frequency amplifiers with a working gain of unity for most applications. In normal high level application, the working level is +3 dbm. For low level application, the working level may be as low as -22 dbm.

1.02 The J68338A IF Switching Amplifier has two inputs and a single output. A monitoring jack is connected to each input circuit. A transmission path from either input to the common output may be selected by means of a DC control voltage. If the control voltage is not applied, there is no transmission through the amplifier. The DC power requirements for the amplifier are +130V at 0.03A and -11.0V at 0.6A.

1.03 The J68338B IF Distributing Amplifier has one input and three outputs. Transmission is continuous from the input to each output. The DC power requirements for the amplifier are +130V at 0.07A and -11.0V at 1.2A.

1.04 The switching and distributing amplifiers are designed to mount in the J68338F Mounting Frame. This frame is 5-1/4" high and mounts on a standard 19" duct-type bay. Each frame will mount any combination of up to five switching and distributing amplifiers according to the job requirements for which the frame is wired.

1.05 The operation, maintenance, and description and operating principles of the J68338A IF Switching Amplifier and the J68338B IF Distributing Amplifier are given in detail in the following sections:

Bell Telephone Laboratories, Inc.