

## J99343SF-1, L1 SINGLE FREQUENCY SIGNALING UNIT

### 4-WIRE INTERMEDIATE REPEATER

### DATA SHEET

### METALLIC FACILITY TERMINAL

J99343SF-1, L1 is a dual function plug-in unit that provides single frequency signaling and transmission. The signaling is E&M 2600 Hz in-band. Transmission is a 4-4 wire repeater with both pre- and post-equalization in both transmit and receive circuits. The unit can be used in conjunction with the J99343FA and FB units to provide loop start to SF signaling and with the J99343FC and FD units to provide ground start to SF signaling. This unit will function in either a single-module frame or in the TU slot of a double-module frame. For a detailed description of this unit, see Section 332-912-151, CD-7C050-01, and SD-7C050-01 (CPS 4). A block diagram is shown in Fig. 1 and switch designations are shown in Fig. 2.

**T-GNA and AT1:** These switches are used together to set a +1 dB transmission level point as measured at the TRMT MON jack on the faceplate. The AT1 switch has an attenuation range of 0 to 16.5 dB in 0.1 dB increments. The T-GNA screw switch provides 0 dB gain in the up position and +10 dB gain in the down position. The screw switch is up when turned two turns counterclockwise.

**T-GNB and AT2:** These switches are the same as T-GNA and AT1 except these switches are used to set the transmission level point at the T1-R1 jacks.

**R-GNA and AT4:** These switches are the same as T-GNA and AT1 except these switches are used to set the transmission level point at the RCV MON jack.

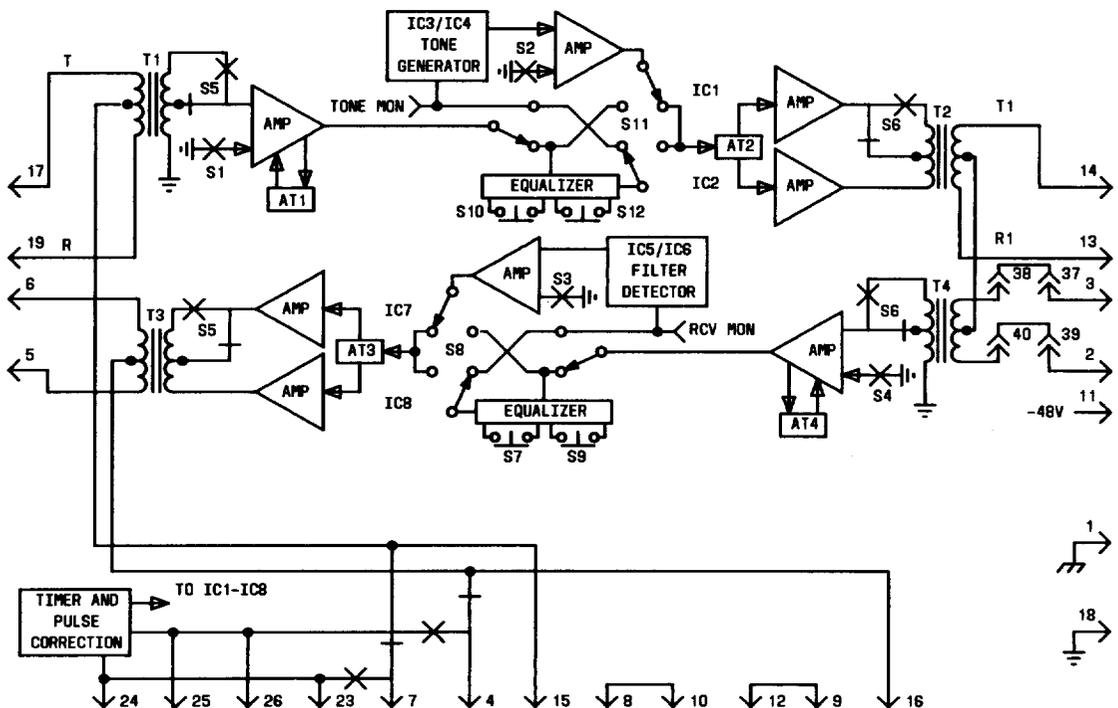


Fig. 1—J99343SF-1, L1 Block Diagram

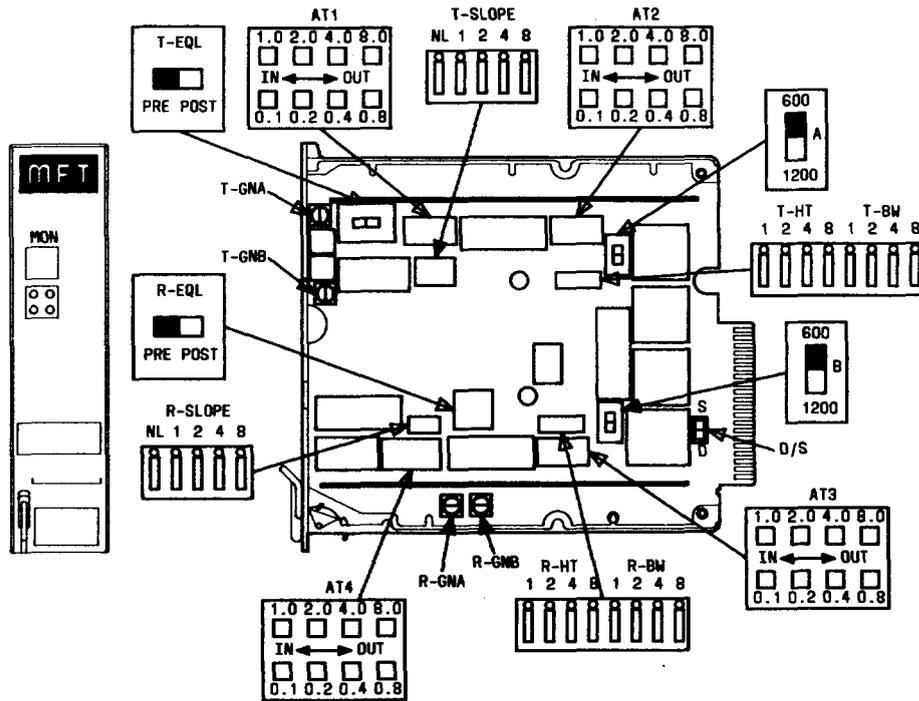


Fig. 2—J99343SF-1, L1 Component Layout

**R-GNB and AT3:** These switches are the same as T-GNA and AT1 except these switches are used to set the transmission level point at the T1/A and R1/B jacks.

**600/1200:** There are two switches, one for the A-side and one for the B-side. These switches select either 600- or 1200-ohm operation.

**R-HT/R-BW:** These switches set the receive height (R-HT) and bandwidth (R-BW).

**T-HT/T-BW:** These switches are the same as R-HT/R-BW except these switches are for the transmit circuit.

**T-EQL:** This switch selects pre- or post-equalization for the transmit circuit.

**R-EQL:** This switch is the same as T-EQL except this switch is for the receive circuit.

**R-SLOPE:** These switches adjust the slope equalization on the receive side. The NL switch is pressed toward NL for nonloaded cable, away from NL for loaded cable.

**T-SLOPE:** These switches are the same as R-SLOPE except these switches are for the transmit side.

**D/S:** This switch selects single (S) or double (D) module mounting.