

## J98726BN-2, L2; BN-3, L3 PLR CHANNEL UNIT D4CE700

### DATA SHEET

### D4 CHANNEL BANK

The 4-wire, Pulse Link Repeater (PLR) channel unit (J98726BN) allows tandem connection of any analog or D bank 4E&M channel directly to either a D4 channel bank or a No. 4 ESS\* switch through a D4/T1 system terminated in a digroup terminal. The channel unit provides:

- (1) Impedance and level conversion at voice frequencies,
- (2) Signaling and supervision interface to the common equipment,
- (3) Jack access for system measurement and analysis,

\* Trademark of Western Electric

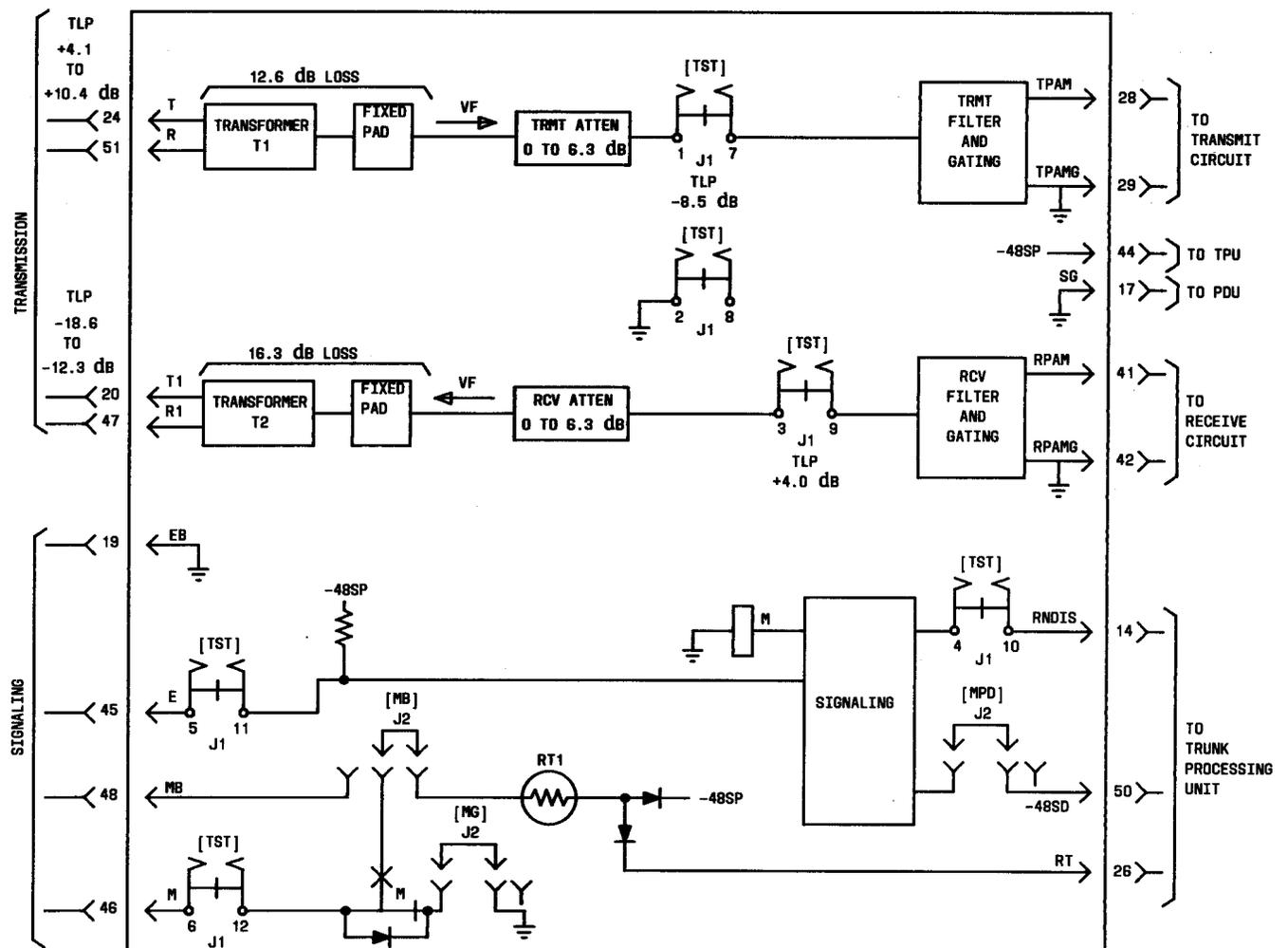


Fig. 1—J98726BN Block Diagram

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**SECTION 365-005-020**

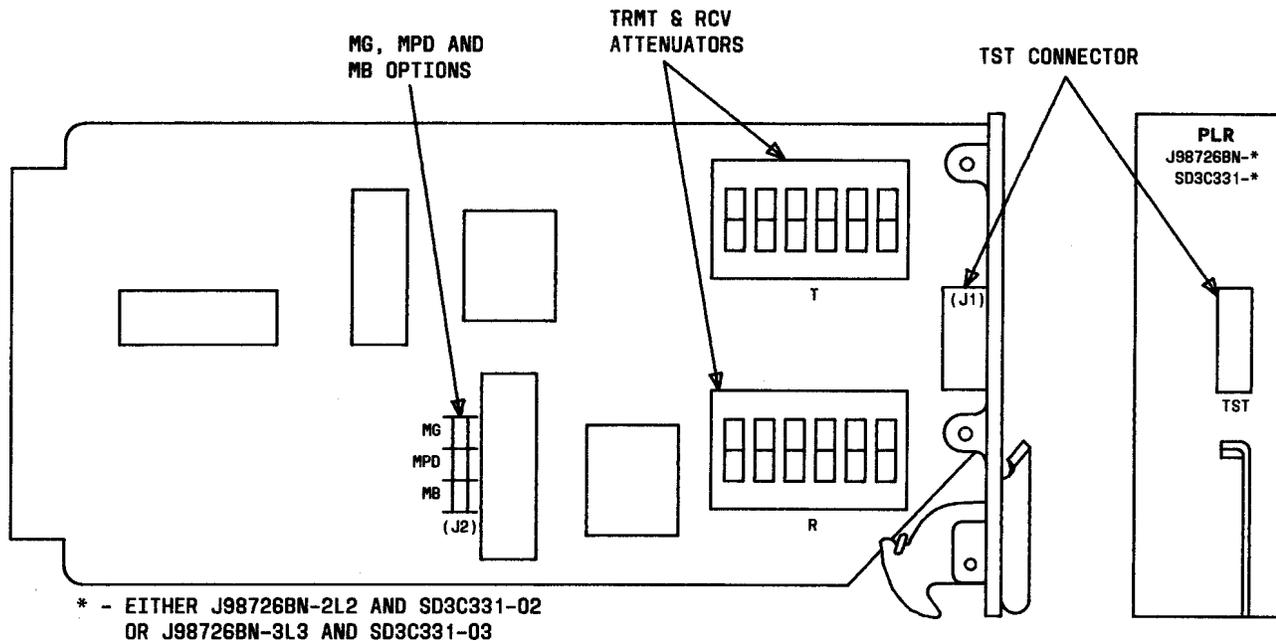
(4) Trunk processing circuits which condition the M lead and make-busy leads in response to carrier failures.

The transmission circuitry of this unit includes transformers, fixed pads, and 0 to 6.3dB attenuators. The signaling circuitry contains a signaling detector for the E lead and a signaling generator for the M lead.

This unit can be used in D4 Channel Banks or SLC\*-96 Carrier System terminals.

For detail, see CD- and SD-3C331-02,-03 and Section 365-170-116. Section 855-351-105 gives prescription (option) settings and application information. Figure 1 is a functional block diagram of the unit, and Fig. 2 gives major component location and option information.

This section is reissued to include the L3 version of the channel unit.



**Fig. 2—J98726BN Component Layout**

**TST CONNECTOR:** Insertion of a test card into this connector provides splitting access to the TRMT TLP, the RCV TLP, the M lead, and the E lead for test and maintenance purposes. Insertion also opens the RNDIS lead and re-enables transmission if it has been disabled by TPU (trunk processing unit) operation.

**MPD OPTION:** This is a trunk processing option which allows the -48SD input from the TPU to control the signaling generator. When a carrier failure occurs, the TPU signal releases; then after 2.5 seconds, it operates the signaling generator producing an on-hook indication followed by an off-hook indication. These indications are passed on to the connecting channel, making the overall trunk release and appear busy. If the option is not selected, the channels will remain in the on-hook condition.

**TRMT AND RCV ATTENUATORS:** Rocker switches on the transmit and receive attenuators provide 0 to 6.3dB of attenuation in the transmit and/or receive transmission paths in steps of 0.1dB. These switches are set to obtain the required transmission level at the TRMT and RCV TLP test terminals (-8.5dB and +4.0 dB respectively). The amount of attenuation is determined by adding the values of the switches set toward the IN position.

**MB, MG OPTIONS:** Option MB provides local -48V battery and option MG provides local ground. Both are selected (plugs in black side of J2) for Type I E&M interface, neither is selected for Type II, and MG is selected and MB is not selected for Type III.

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