J98726PB-1, L1 TRXS CHANNEL UNIT D4DC310

DATA SHEET

D4 CHANNEL BANK

The Time Compression Multiplex Remote Exchange Station (TRXS) end channel unit (J98726PB) is used in carrier trunks for Circuit Switched Digital Capability (CSDC). It provides the interface between the customer's loop and the D4 channel bank. The TRXS channel unit at the customer's normal exchange office is used in conjunction with the RXO (Remote Exchange Office end) channel unit at the CSDC office. Both channel units contain the circuitry for transmission of voice, 56 kb/s data, and control signals in both directions, along with the accompanying signaling and supervision signals. In addition, the TRXS channel unit utilizes time compression multiplexing (TCM) for data signals sent and received over the customer loop.

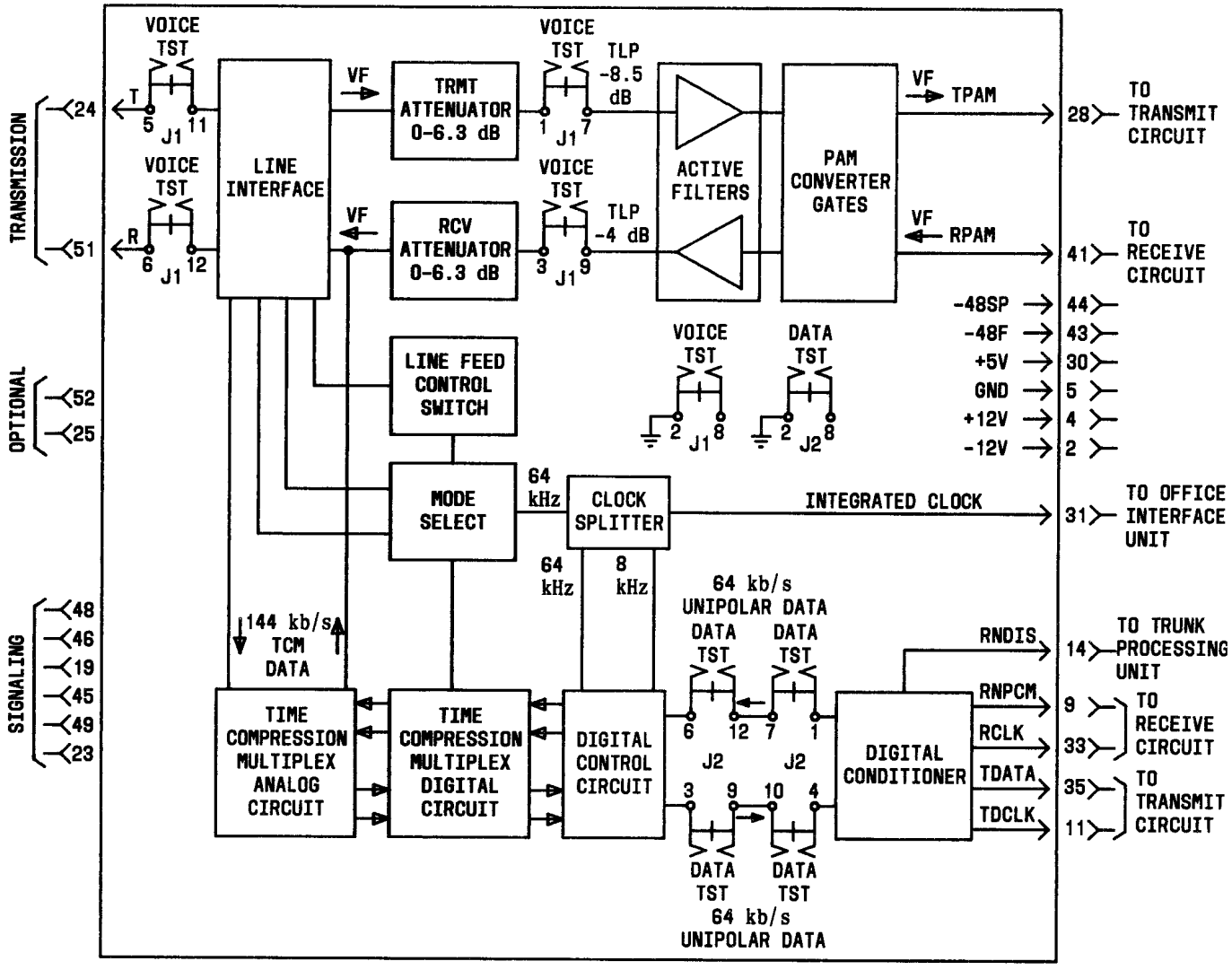

Fig. 1—J98726PB-1 Block Diagram

The voice transmission circuitry of this unit consists of the line interface, 0 to 6.3 dB transmit and receive attenuators, active bandpass filters, and gate circuitry for pulse amplitude modulation (PAM). The data circuitry consists of the line interface, TCM analog and digital circuits, and the digital signal conditioner.

For detail, see CD- and SD-7C301-01 and Section 365-170-123.

Figure 1 is a functional block diagram of the unit and Fig. 2 gives major component location and option information.

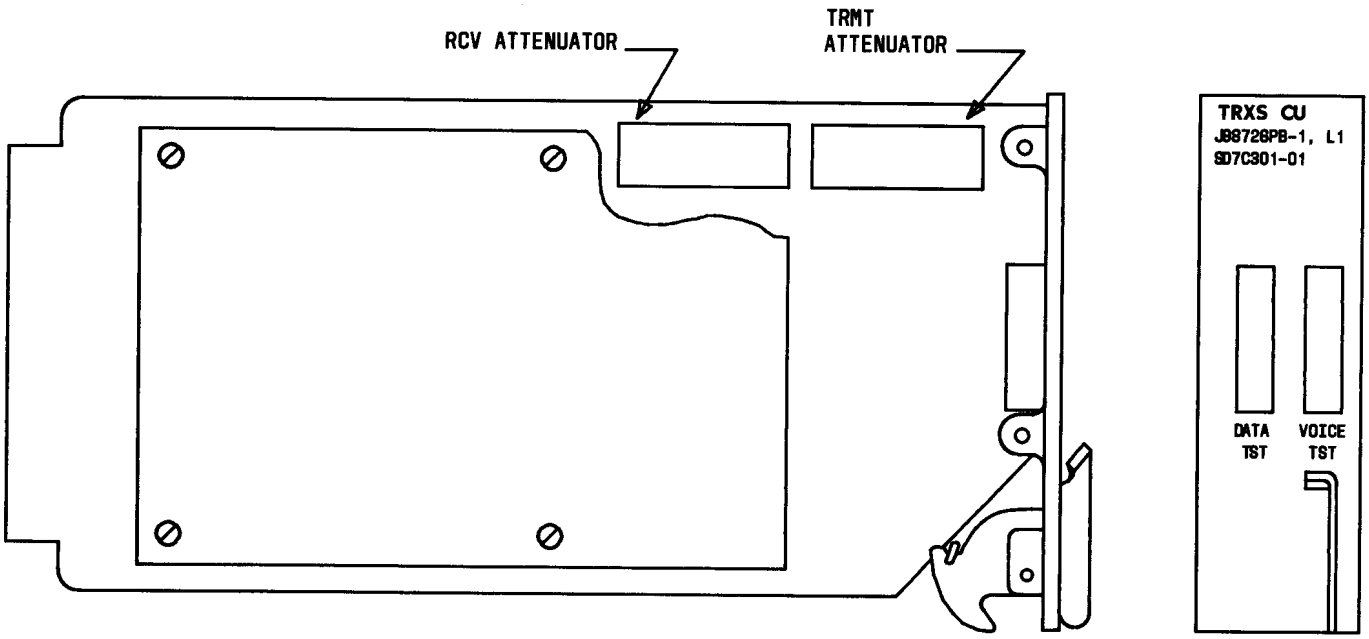

Fig. 2—J98726PB-1 Component Layout

DATA TST CONNECTOR: Insertion of a test card into this connector provides splitting access to the transmit and receive 64 kb/s unipolar data points.

TRMT AND RCV ATTENUATORS: Six rocker switches on both the transmit and receive attenuators provide 0 to 6.3 dB of attenuation in the transmit and/or receive voice transmission paths in steps of 0.1 dB. These rocker switches are set to obtain the required voice transmission level at the TRMT and RCV TLP voice test terminals (−8.5 dB and −4 dB respectively).

VOICE TST CONNECTOR: Insertion of a test card into this connector provides splitting access to the −8.5 dB transmit and −4.0 dB receive transmission level points in the 4-wire voice circuit and provides access to the tip and ring leads on the 2-wire side.