J98726BA-4, L4, B DPO CHANNEL UNIT D4CD100

DATA SHEET

D4 CHANNEL BANK

The 2-wire, 900-ohm Dial Pulse Originating (DPO) channel unit (J98726BA-4 L4, B) provides the interface between a D4 channel bank or SLC*-96 subscriber loop carrier system terminal and a 2-wire dial pulse originating circuit. It serves loop supervision (loop closures and reverse battery) and dial pulse or multifrequency pulse signaling. For signaling and supervision, it converts loop closures from the trunk circuit into pulses for the digital network. Similar pulses from the digital network are converted into normal and reverse battery condition for the trunk circuit.

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The transmission circuitry of this unit contains a hybird for 2- to 4-wire conversion, 0 to 6.3 dB attenuators, and network buildout circuitry.

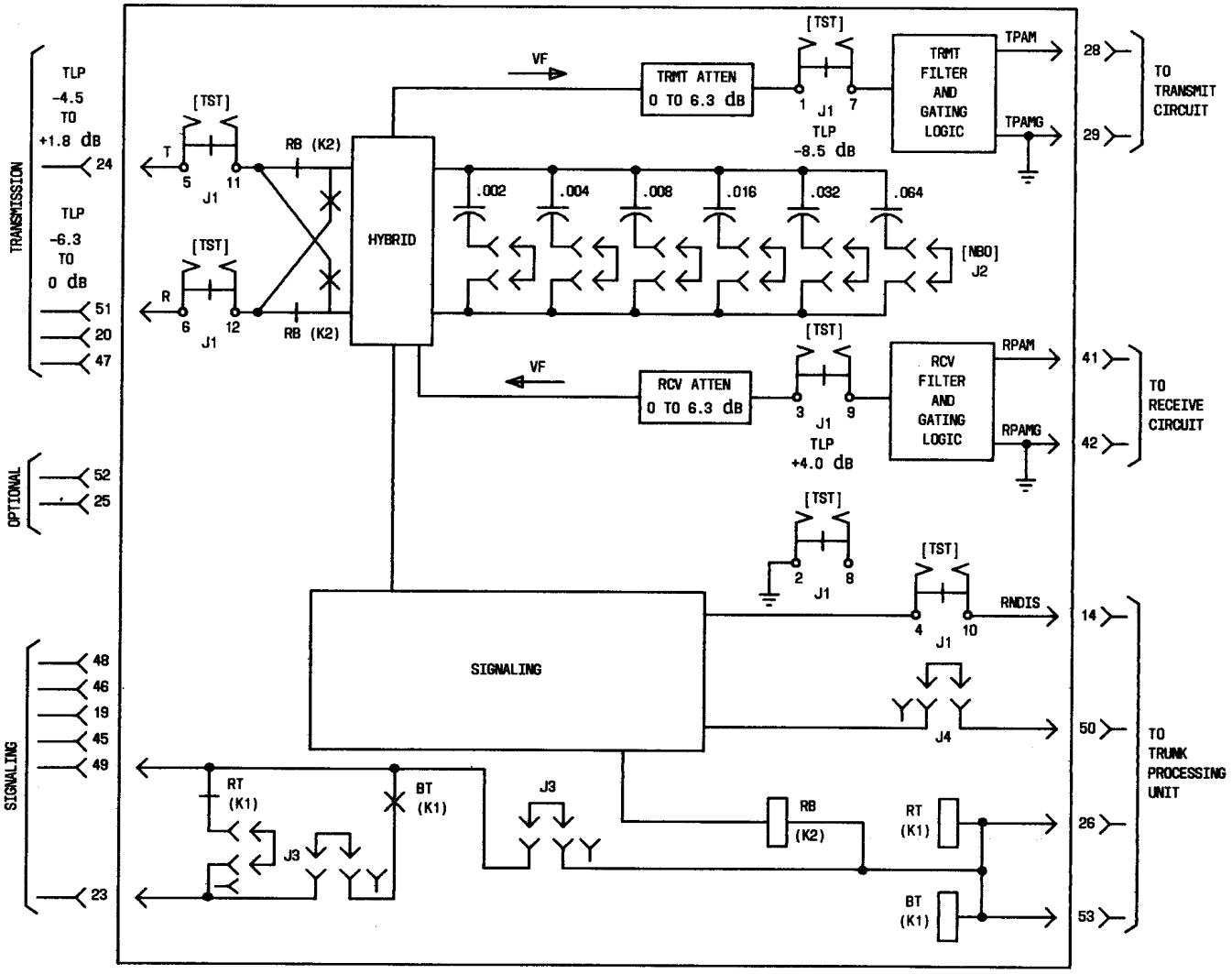

Fig. 1 — J98726BA-4 Block Diagram

For detail, see CD- and SD-3C322-02 and Section 365-170-110. 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.

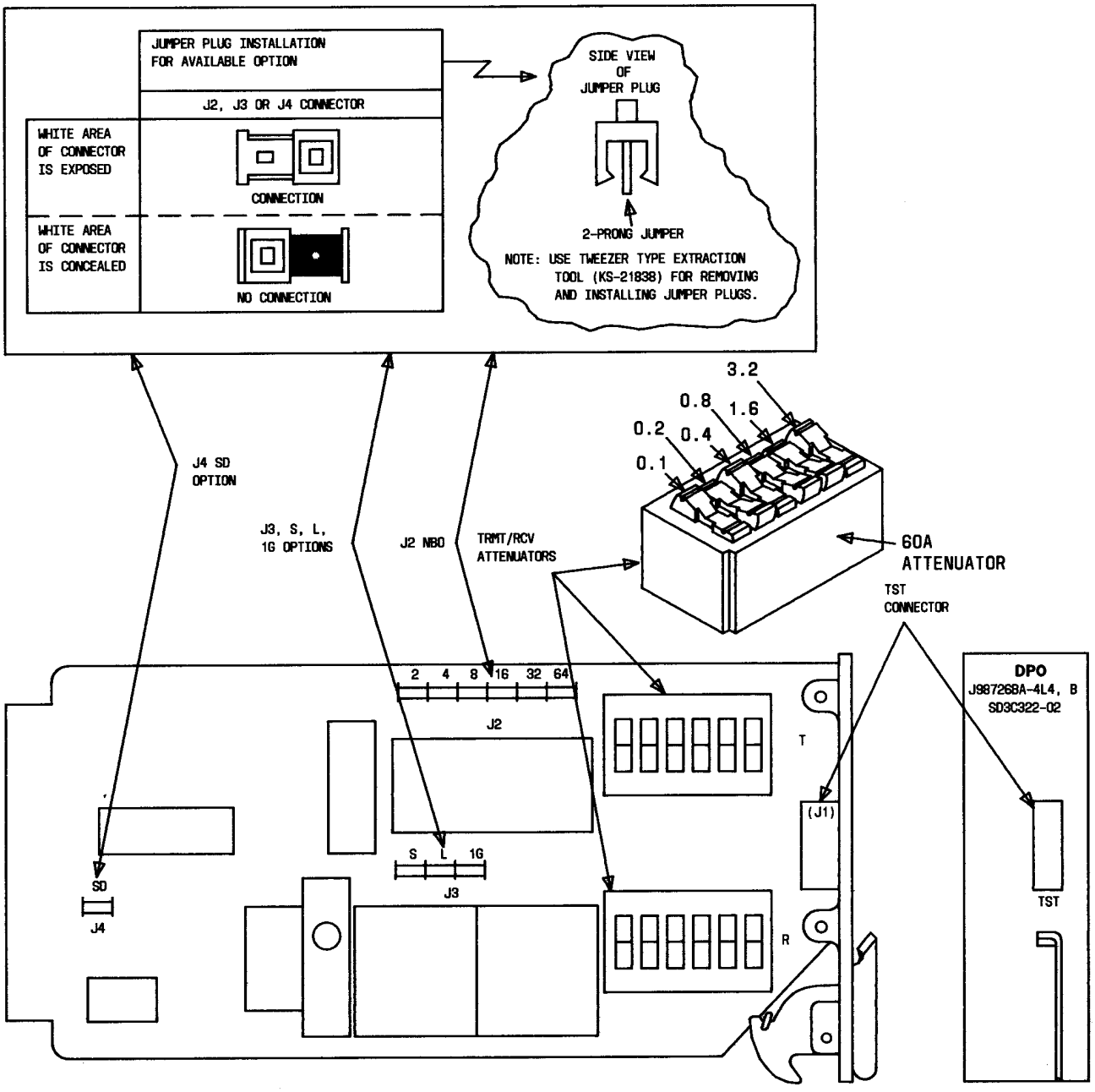

Fig. 2 — J98726BA-4 Component Layout

TST CONNECTOR: Insertion of a test card into this connector provides splitting access to the drop side of the hybrid, the TRMT TLP, the RCV TLP, and the RNDIS lead for test and maintenance purposes.

TRMT AND RCV ATTENUATORS: Switches on these attenuators provide from 0 to 6.3 dB of attenuation in the transmit and/or receive transmission paths in steps of 0.1 dB. Attenuation is inserted into the transmission path by depressing the switch rocker arm. The position of the switches in the above diagram is an example of how to set the attenuator for a loss of 2.6 dB. The total attenuation is the sum of all the values adjacent to the end of each switch that is depressed.

J2 NETWORK BUILDOUT: Jumper plugs are inserted into socket J2 according to circuit requirements. Network buildout is selected by inserting jumper plugs into the black side (white side showing) of the socket for desired values of capacitance (0.002, 0.004, 0.008, 0.016, 0.032, or 0.064).

J3 S, L, 1G OPTIONS: Options 1G and S are selected when the channel unit is used with a step-by-step office to split the "S" lead from an outgoing trunk circuit and ground the switch side of the "S" lead during a carrier failure. Option L is selected when a dry contact closure is required during a carrier failure. Option 1G is selected when an internally supplied ground is desired during a carrier failure. The options are selected by inserting jumper plugs into the black side (white showing) of J3.

J4 SD OPTION: Option SD is selected when the channel unit is connected to a trunk circuit which requires reverse battery during a carrier failure. Option SD is selected by inserting the jumper plug into the black side (white showing) of J4.