J98726CJ-1, L2 4E&MS CHANNEL UNIT D4CE800

DATA SHEET

SLC*-96 CARRIER SYSTEM

The 4-wire, 600-ohm E and MS (4E&MS) channel unit (J98726CJ) provides the interface between the common equipment in the SLC-96 carrier system remote terminal (RT) and a Type I (2-wire), Type II (4-wire fully looped), or Type III (4-wire partially looped) 600-ohm E&M circuit. The unit can be optioned to function as a pulse link repeater (PLR) type unit (Mode A) for switch trunk-side applications or as a 4-wire E and M extended range unit (Mode B) for carrier side applications.

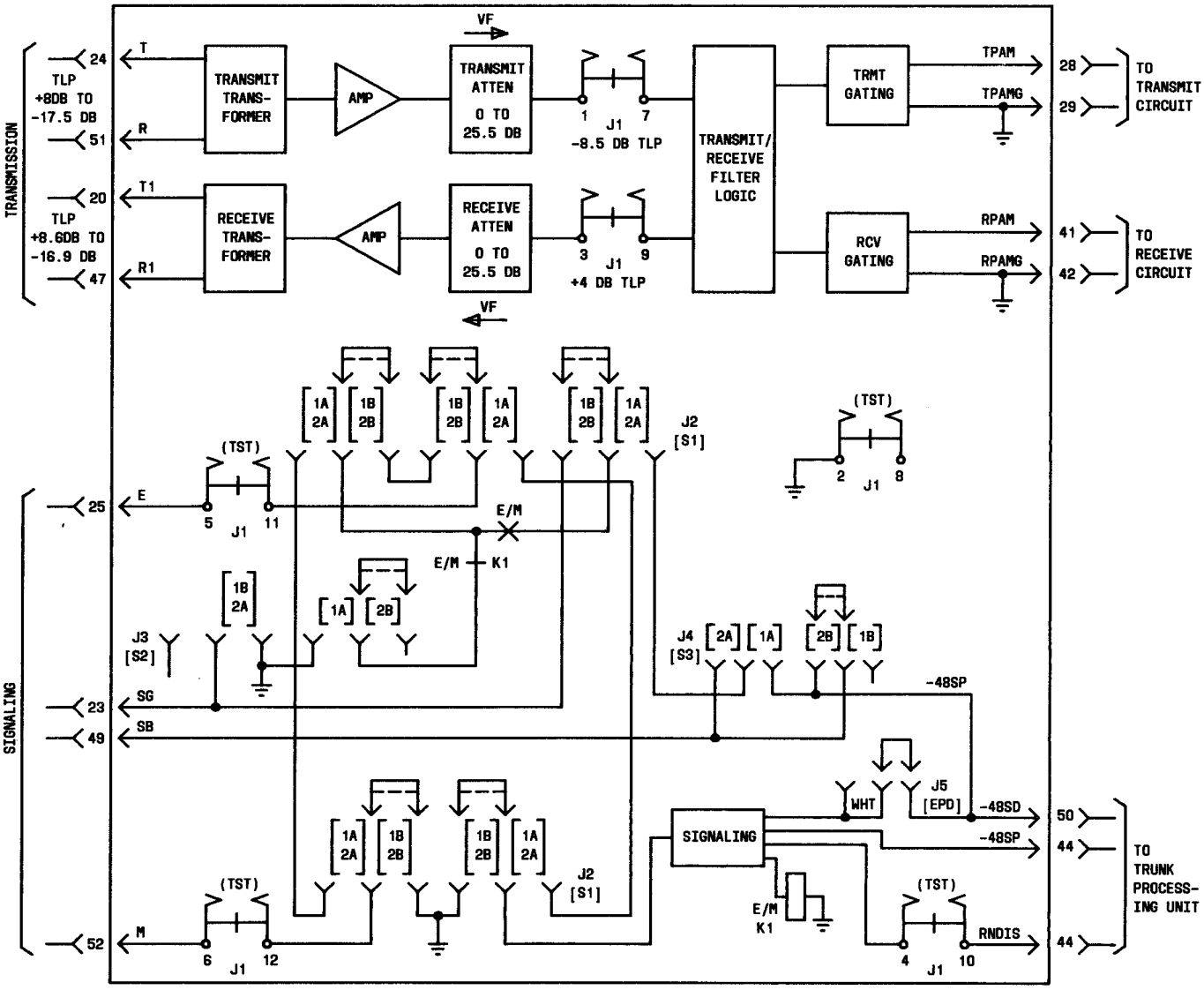

Fig. 1—J98726CJ-1 Block Diagram

* Trademark of Western Electric

The transmission circuitry of this unit contains transformers, amplifiers, and 0 to 25.5 dB attenuators.

For detail, see CD- and SD-3C463-01 and Section 363-202-100. Section 915-710-110 gives application information.

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

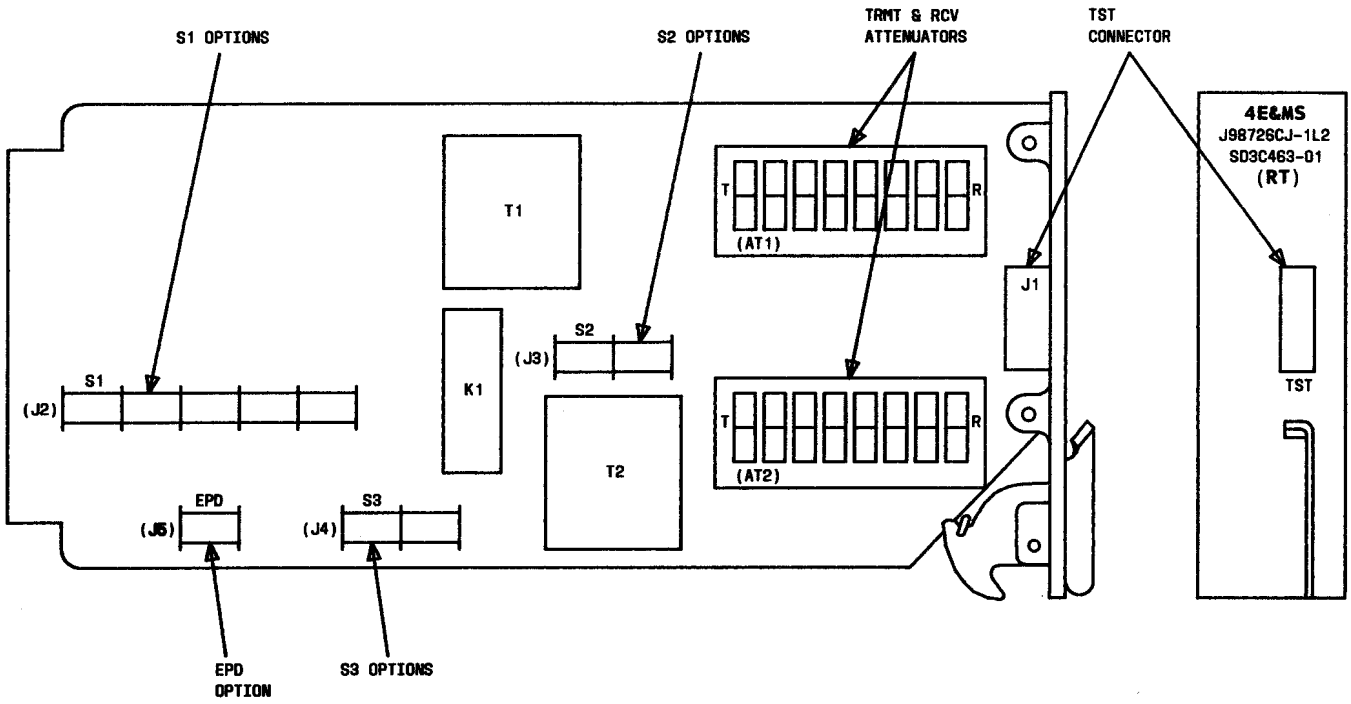

Fig. 2—J98726CJ-1 Component Layout

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

TRMT & RCV ATTENUATORS: Switches on these attenuators provide from 0 to 25.5 dB of attenuation, in 0.1 dB steps, in both the transmit and receive directions. The left side of both attenuators is dedicated to the transmit path (T) and the right side to the receive path (R). The attenuators are set by depressing the rocker switches toward the numbers desired, and adding the total attenuation selected in the transmit or receive path on both attenuators.

S1, S2, and S3 OPTIONS: To configure the unit as a 4E&M (Mode B), insert the plug in S3 in position 1B for Type I signaling or 2B for Type II or III signaling. Next insert the five plugs in S1 in the 1B/2B positions, and finally insert the plug in S2 in position 1B/2A for Type I or Type III signaling or in position 2B for Type II signaling. Used as a 4E&M unit, option S2 provides the same E-ground conditions as the 4E&M EG option with the 1B position being ON (ground applied) and the 2B position being OFF (no ground applied).

To configure the unit as a PLR (Mode A), insert the plug in S3 in position 1A for Type I signaling or in position 2A for Type II signaling. Next insert the five plugs in S1 in the 1A/2A positions, and finally insert the plug in S2 in position 1A for Type I signaling or in position 1B/2A for Type II signaling. S2 provides the same conditions as the PLR MG option with position 1A being ON (ground applied to M lead) and position 2A being OFF (no ground applied). S3 provides the same conditions as the PLR MB option with position 1A being ON (−48 volts applied to M lead for Type I interfaces) and position 2A being OFF (loop closure provided between M and SB leads for Type II interfaces).

EPD OPTION: Select option EPD (insert plug so white is showing) to force the E lead to an on-hook condition for 2.5 seconds before off-hook upon trunk processing. This option is used only when the channel unit is optioned as a 4E&M unit and is employed when make-busy leads are not available at the originating end of a 1-way trunk or at either end of a 2-way trunk.