Table 5–3 (cont)
TC02 Module Complement

Number Required	Туре	Description	Revision
2	W104	PDP-9 I/O Bus Module	
3	W107	High Impedance Follower	Α
1	W520	Comparator	В
8	W850	I/O Cable Connectors	Α

5.3.2 Circuit Description

The following circuit description is provided to supplement the information in the Digital Logic Handbook C-105, and the circuit diagrams of the modules of the system follow.

MANCHESTER READER/WRITER G882 (Figure 5-3)

The Manchester Reader/Writer G882 is a standard size FLIP CHIP module for use in reading and writing one channel of Type TU55 DECtape. Each module contains two write amplifiers and one high-gain differential read amplifier. The read amplifier saturates with a 1 mV input.

Module Characteristics

The terminals for the module are shown in Figure 5-3. The input and output characteristics are as follows.

Reader Inputs E, D – are differential signals centered at ground. The input impedance is approximately 400 ohms to ground. A nominal input signal is a sine wave between 5 kc and 30 kc.

Reader Outputs U,V – are standard DEC levels of -3V and ground. The outputs can drive 10 mA of load at ground.

Writer Inputs - N, R, and P are standard DEC levels of -3V and ground. The input load of 2 mA is shared by the inputs at ground level.

Writer Outputs – J and K, are nominal 180-mA current pulses from ground to –15V. The power requirements of the module are $\pm 10(A)/18$ mA and $\pm 15(B)/235$ mA. The marginal check limits in both cases are $\pm 20\%$.

Both the reader and the writer circuits are returned to a common C, F ground.

5.3.3 Module Replacement Procedure

When necessary to remove modules, the procedure is as follows.

a. Turn off all power to the Type TC02 DECtape Control.