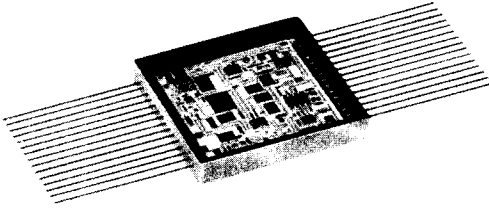


## DATA BUS RECEIVER



### FEATURES

#### DESCRIPTION AND APPLICATIONS

A hybrid data bus receiver, the BUS-8555 has been designed to convert bipolar, biphase Manchester II data to TTL levels, in accordance with McDonnell Douglas Corporation's A-3818, A-5232, A-4905, A-5690 and MIL-STD 1553 A/B specifications. This unit features the flexibility of internal and external threshold configurations†, which provide signal detection between 750 mV, peak to peak (nominal), preset internally; and 0.0 V to 2.0 V, peak to peak, adjusted externally (Figure 1). The BUS-8555's advanced design permits operation between 10 kHz and 1 MHz, while maintaining full accuracy with  $\pm 12$  V to  $\pm 15$  V power supply inputs. The BUS-8555 dissipates less power (550 mW) than competitive receivers.

Figure 2 illustrates the positive and negative excursions of a typical input waveform from the data bus.

† Internal threshold level is preset to 750 mV, peak to peak, when pins 18 and 28 are grounded.

- MEET REQUIREMENTS OF MCDONNELL DOUGLAS CORPORATION A-3818, A-5232, A-4905, A-5690 AND MIL-STD-1553 A/B
- 550 mW POWER CONSUMPTION
- TTL COMPATIBLE OUTPUT
- MEETS MIL-STD-883B

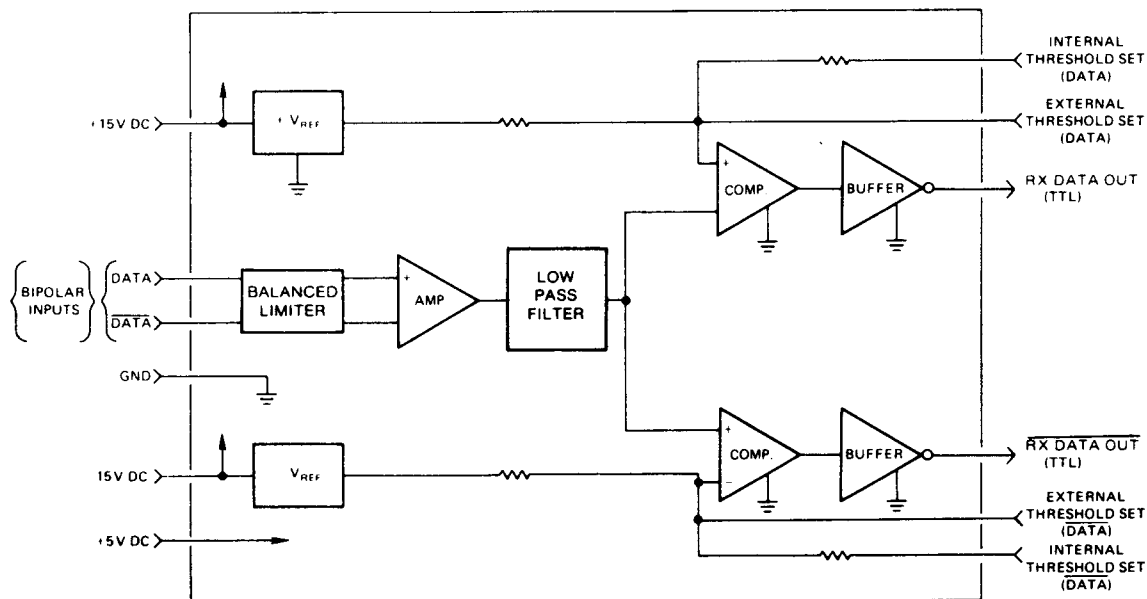
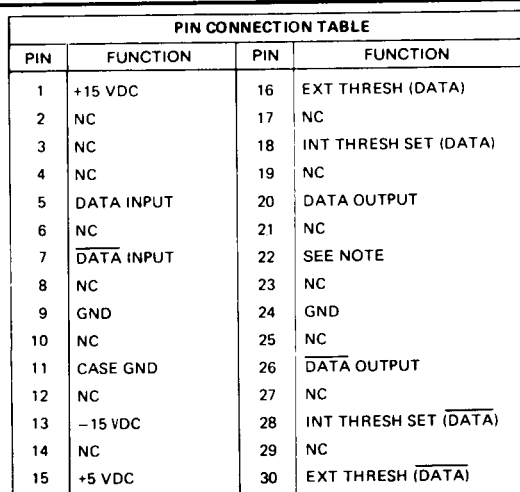


FIGURE 1. BLOCK DIAGRAM

J

## MECHANICAL OUTLINE



Blank = Standard DDC procedures.