

1553 Manchester Encoder

SERIES: MAE-8782

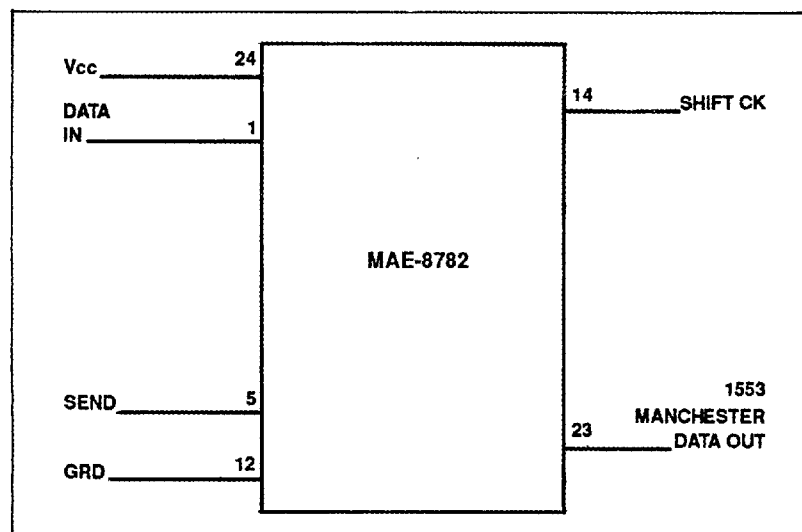
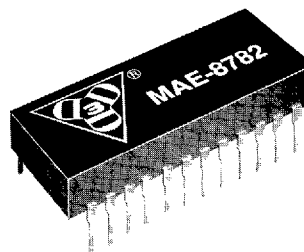
(20 MBAUD)

**data
delay
devices, inc.**

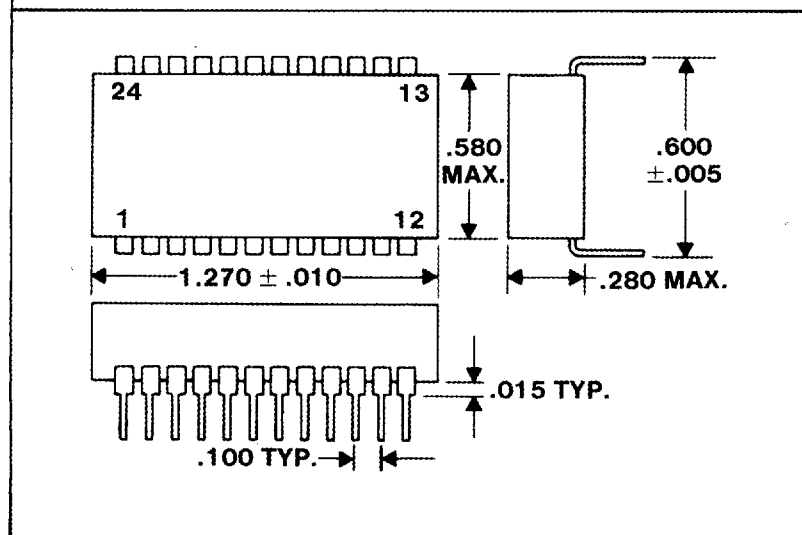


Specifications:

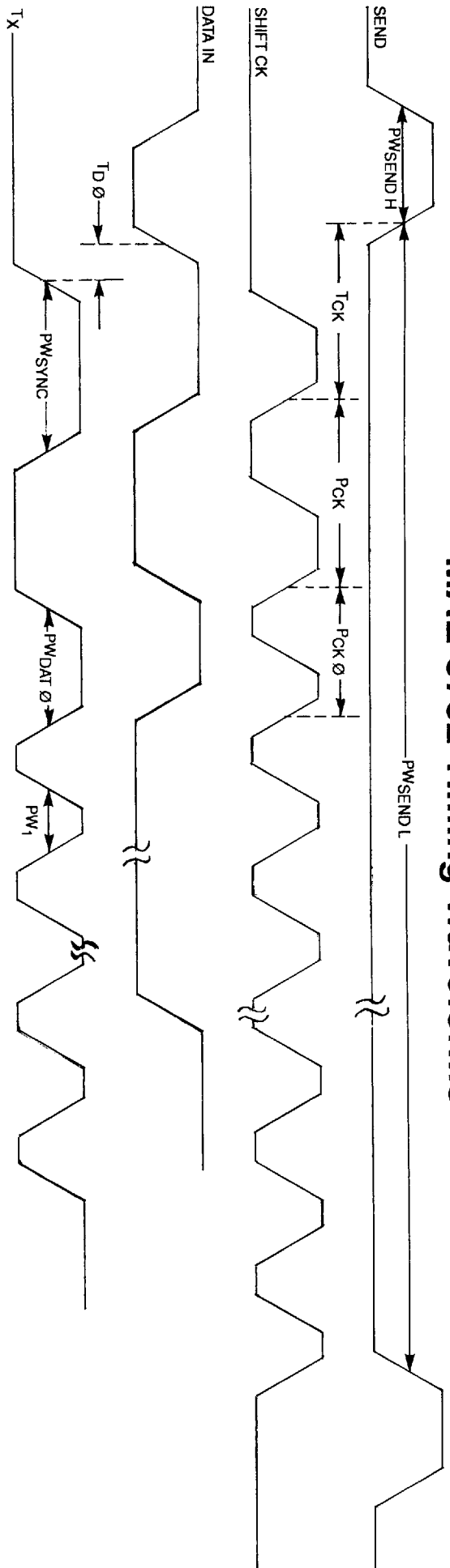
- Completely TTL buffered.
- Operating temperature: 0°C to 70°C (-55°C to +125°C on request).
- Temperature coefficient: 100 PPM/°C.
- Supply voltage: 5 Vdc $\pm$ 5%.
- Power dissipation: 1.3 w typ.
- Data rate: 20 MBIT/sec (others on request).
- DC Parameters: See TTL-Fast Schottky Logic Table on Page 6.



**See Other Side
For Timing Waveform**



MAE-8782 Timing Waveforms



$PW_{SEND\ H} = 70\ \text{nsec min.}$

$PW_{SEND\ L} = 2 * PW_{SYNC} + 16 * PW_{DAT\ \emptyset}$

$T_{CK} = P_{CK} = 75\ \text{nsec typ.}$

$P_{CK\ \emptyset} = 50\ \text{nsec} \pm 5\%.$

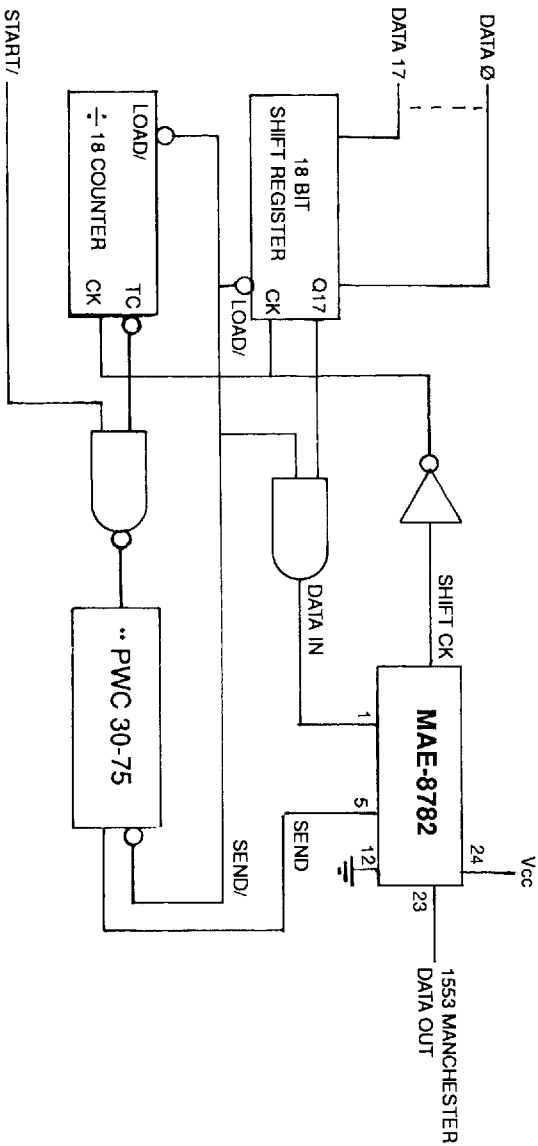
$PW_{SYNC} = 75\ \text{nsec} \pm 5\%.$

$PW_{DAT\ \emptyset} = 50\ \text{nsec} \pm 5\%.$

$PW_1 = 25\ \text{nsec} \pm 5\%.$

$T_{D\ \emptyset} = 5\ \text{nsec typ.}$

** Data Delay Devices Rising Edge Triggered Pulse Width Controller. It generates a precise and stable 75 nsec pulse.



Typical Encoder Interface