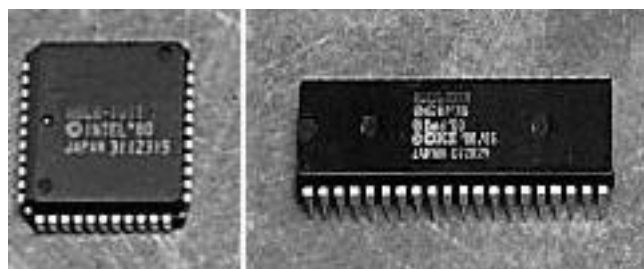## FEATURES:

- Inexpensive Decoder Solution
- Interleaved 2 of 5 Code Only
- No External Memory Required
- Serial Interface
- Minimal External Components
- Read and Transmit Only

## DESCRIPTION:

The DB2000 Series decoder chips are offered as an inexpensive decoding solution where a numeric, fixed length barcode can be used. The decoder decodes Interleaved 2 of 5 barcode in fixed lengths of 4 to 14 digits. Because of the characteristics of the Interleaved 2 of 5 code, use of a fixed length is always recommended to reduce the risk of false reads. Interleaved 2 of 5 has the advantage of being easy to print and produces a shorter barcode symbol than many other symbologies. Using the DB2000 chip, a minimal number of additional components is necessary to construct a decoder to read the barcode and transmit the data via an RS-232 interface.

## APPLICATIONS:

The DB2000 Series is designed to be incorporated into the users printed circuit board. The unit is available in either PLCC-44 or 40-pin DIP Packages. No external memory or latch chips are required, keeping component count to a minimum. External circuitry includes a crystal, reset/watchdog chip such as a MAX824 or DS1232 and an RS-232 communications chip like the MAX232 or LT1080. A general application circuit is shown on page 2 of this data sheet. Good circuit layout practices are required when designing a circuit board, including a decoupling capacitor close to the VCC and Ground pins.

## SPECIFICATIONS:

**Electrical**

| | |
|---|---|
| Power: | +5VDC±5% @ 25ma. Maximum. |
| Digital Input: | TTL level Signal, Bar = +5V |
| Communications: | Serial ASCII. |
| Baud Rates: | 1200, 2400, 4800, 9600 |
| Parity: | Mark, Space, Even or Odd |
| Stop Bits: | 1 or 2 |
| | RTS/CTS hardware handshaking. |

**Barcodes**

| | |
|---|---|
| Code Types: | Interleaved 2 of 5 |
| Code Lengths: | 4 to 14 Characters. |

**Environmental**

| | |
|---|---|
| Temperature: | Operating: 0° to 70°C |
| | Storage: -40 to 70°C |

## PART NUMBERS:

Part Numbers are:

**CB2000-XX**

Where XX is the length of code to be decoced. It is a two digit number between 04 and 14. Example: a CB2000-10 decodes a 10 digit interleaved 2 of 5 code.

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# APPLICATION CIRCUIT: