

## 16x2 Character LCD (Parallel Interface)

Pololu item #: 773

215 in stock

Price break Unit price (US\$)

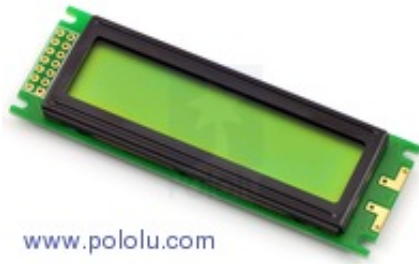
1	9.95
10	8.95
50	7.95

Quantity:

**backorders** allowed

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This 16 × 2 LCD packs 32 characters into an outline smaller than that of most two-line displays. This unit uses the HD44780 interface found on most parallel character displays and operates without a backlight.

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### Overview

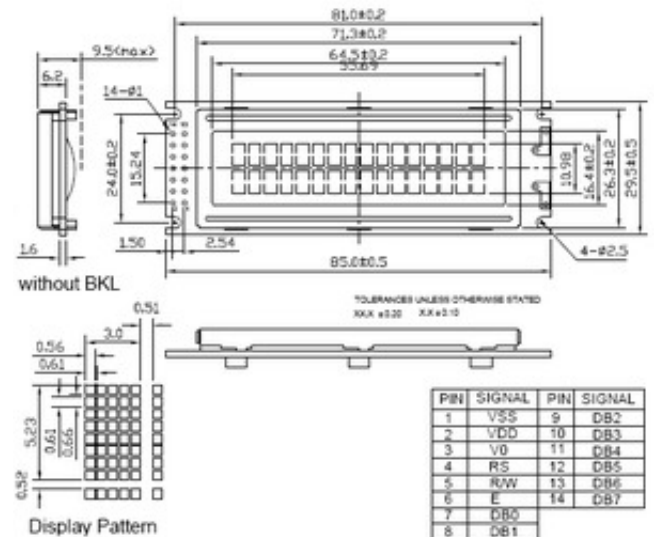
This 16-character, 2-line parallel liquid crystal display achieves a large viewing area in a compact package. It uses the common [HD44780 interface](#) (330k pdf), so sample interface code is widely available for a variety of microcontrollers. This LCD is also available [with a backlight](#).

The DDRAM address 0x00 corresponds to the first character of the top line, address 0x0F corresponds to the last character of the top line, address 0x40 corresponds to the first character of the second line, and address 0x4F corresponds to the last character of the second line.

You can find sample HD44780 LCD interface code written for a variety of AVR microcontrollers as part of the [Pololu AVR library](#).

### Pinout

Pin	Symbol	Function
1	Vss	ground (0 V)
2	Vdd	5 V logic supply voltage
3	Vo	contrast adjustment
4	RS	H/L register select signal
5	R/W	H/L read/write signal
6	E	H/L enable signal



7-14	DB0 – DB7	H/L data bus for 4- or 8-bit mode
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**Note:** No cables or connectors are included with this product, but a [40x2-pin 0.100" male header strip](#) and 20", [16-conductor ribbon cable](#) can be purchased separately. You can break a 7x2 segment from the header strip and solder it to the 14 through-holes on the left side of the LCD PCB; the ribbon cable will then plug into the header pins (leaving two holes empty). The header pins won't enforce proper orientation of the cable, so you will need to take care to plug it in to the correct pins. The [8x2 shrouded box header](#) will not work with this LCD.

People often buy this product together with:



[0.100" \(2.54 mm\) Breakaway Male Header: 1x40-Pin, Straight](#)



[16-Conductor Ribbon Cable with IDC Connectors 20"](#)



[0.100" \(2.54 mm\) Breakaway Male Header: 2x40-Pin, Straight](#)